

Name of Teacher Dr. Anshu	B.Sc - I year (Physics) Semester - I Lesson Plan: Paper-1 (PHY-101) Mechanics Monthly Basis (July 2023 to December 2023)
July	<ol style="list-style-type: none"> 1. Mechanics of single and system of particles 2. Conservation laws of linear momentum, angular momentum and mechanical energy 3. Centre of mass and equation of motion 4. Constrained motion, Degrees of freedom
August	<ol style="list-style-type: none"> 1. Generalized coordinates, displacement 2. Generalized velocity, acceleration, momentum 3. Generalized force and potential 4. Hamilton's variational principle
September	<ol style="list-style-type: none"> 1. Lagrange's eq. of motion from Hamilton's principle 2. Linear Harmonic oscillator 3. Simple pendulum 4. Atwood's machine
October	<ol style="list-style-type: none"> 1. Rotation of rigid body, Moment of Inertia 2. Torque, Angular momentum, Kinetic energy of rotation 3. Theorem of perpendicular and parallel axes with proof 4. Moment of inertia of solid sphere
November	<ol style="list-style-type: none"> 1. Moment of inertia of hollow sphere, spherical shell 2. Moment of inertia of solid cylinder, hollow cylinder 3. Moment of inertia of solid bar of rectangular cross-section 4. Acceleration of a body rolling down an inclined plane

Name of Teacher Dr Anshu	B.Sc - I year (Physics) Semester-1 Lesson plan: Paper-II (PHY-102) Electricity and Magnetism Monthly Basis (July 2023 to December 2023)
July	<ol style="list-style-type: none"> 1. Scalars and Vectors, Dot and cross product 2. Triple vector product, Scalar and vector fields 3. Differentiation of a vector, Gradient of scalar & its physical significance 4. Integration of a vector, Gauss's divergence theorem and Stokes theorem
August	<ol style="list-style-type: none"> 1. Derivation of field E from potential as gradient 2. Derivation of Laplace and Poisson equations, Electric flux 3. Gauss law & its application to spherical shell, uniformly charged infinite plane and uniformly charged straight wire 4. Mechanical force of charged surface, Energy per unit volume
September	<ol style="list-style-type: none"> 1. Magnetic Induction, Magnetic flux 2. Solenoidal nature of vector field of induction 3. Properties of B (i) $\nabla \cdot B = 0$ (ii) $\nabla \times B = \mu_0 J$ 4. Electronic theory of dia and para magnetism
October	<ol style="list-style-type: none"> 1. Domain Theory of ferromagnetism 2. Cycle of Magnetisation - Hysteresis 3. Maxwell equation and their derivations 4. Displacement current
November	<ol style="list-style-type: none"> 1. Vector and scalar potentials 2. Boundary conditions at interface b/w two media 3. Propagation of electromagnetic wave 4. Poynting vector and Poynting theorem

Name of Teacher Dr. Anshu	B.Sc - I year (Physics) Semester-2 Lesson Plan: Paper-I (PHY-201) Properties of Matter, Kinetic Theory and Relativity Monthly Basis (Jan 2024 to April 2024)
January	<ol style="list-style-type: none"> 1. Elasticity, Hooke's Law 2. Elastic constants and their relations 3. Poisson's ratio, Torsion of cylinder & twisting couple 4. Bending of beam, Cantilevers, Centrally loaded beam
February	<ol style="list-style-type: none"> 1. Assumptions of kinetic theory of gases 2. Law of equipartition of energy & its applications for specific heat of gases 3. Maxwell distribution of speeds & velocities, Experimental verification of Maxwell's law of speed distribution 4. Transport of energy and momentum, Diffusion of gases
March	<ol style="list-style-type: none"> 1. Brownian motion, Real gases, Vanderwaal's equation 2. Reference systems, Inertial frames 3. Galilean invariance and conservation laws 4. Newtonian relativity principle
April	<ol style="list-style-type: none"> 1. Michelson - Morley experiment 2. Lorentz transformations 3. Length contraction, Time dilation, velocity addition theorem 4. Variation of mass with velocity and mass energy equivalence

Name of Teacher DA. Anshu	B.Sc - I year (Physics) Semester-2 Lesson Plan: Paper-II (PHY-202) Electromagnetic Induction and Electronic Devices Monthly Basis (January 2024 to April 2024)
January	<ol style="list-style-type: none"> 1. Growth & Decay of current in a circuit with C and R; R and L; C and L; LCR 2. AC circuit analysis using complex variables with RC, RL, CL, LCR 3. Series & Parallel resonant circuit 4. Quality Factor
February	<ol style="list-style-type: none"> 1. Energy bands in solids, Intrinsic & Extrinsic semiconductors 2. Hall Effect, PN Junction diode & their VI characteristics, Zener & Avalanche breakdown, Resistance of a diode, 3. LED, Photodiode, Solar cell, PN Jn. Half wave & full wave rectifier, Types of Filter circuits 4. Zener diode as voltage regulator, Simple regulated power supply
March	<ol style="list-style-type: none"> 1. Junction transistors, Bipolar transistors, Working of NPN and PNP transistors 2. Transistor characteristic curves, CRO 3. Transistor biasing, Methods of transistor biasing & stabilization, DC Load line 4. RC coupled amplifier, Feedback in amplifiers
April	<ol style="list-style-type: none"> 1. Oscillators, Principle of oscillation 2. Classification of oscillators 3. Barkhausen Criterion for oscillation, Tuned collector common emitter oscillator 4. Hartley oscillator, Colpitt's oscillator

MON, T, W, T - 4 days classes.

Maharani Kishori Jat Kanya Mahavidyalaya Rohtak
 Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof/ Associate Prof... Dr. Anita Chandhary.
 Class. B.A. Hnd. IInd Sem. Subject. Physical Geography II

Week	Date	Topic
1	22.07.2024	
	23.07.2024	
	24.07.2024	
	25.07.2024	
	26.07.2024	
	27.07.2024	
	28.07.2024	Sunday
2	29.07.2024	
	30.07.2024	
	31.07.2024	Shahid Udham Singh Shahidi Diwas
	01.08.2024	Meaning and Definition of weather and climate.
	02.08.2024	
	03.08.2024	
	04.08.2024	Sunday
3	05.08.2024	Factors affecting and Elements of weather and climate
	06.08.2024	Meaning, Composition and structure of Atmosphere.
	07.08.2024	
	08.08.2024	Chemical Composition and Importance of Atmosphere
	09.08.2024	
	10.08.2024	
	11.08.2024	Sunday
4	12.08.2024	
	13.08.2024	Meaning, Distribution of Insolation on earth.
	14.08.2024	Factors Affecting Insolation and Heat Budget of earth.
	15.08.2024	Independence Day
	16.08.2024	HOLIDAY.
	17.08.2024	
	18.08.2024	Sunday
5	19.08.2024	Raksha Bandhan
	20.08.2024	
	21.08.2024	
	22.08.2024	Heating & Cooling of Atmosphere, factors Affecting temp.
	23.08.2024	
	24.08.2024	
	25.08.2024	Sunday
6	26.08.2024	Krishan Janmashtmi
	27.08.2024	Isotherms - Salient features, distribution of temp.
	28.08.2024	Thermal Anomaly, Temp. change, & derived forms.
	29.08.2024	Temp Zones, Vertical distribution of temp.
	30.08.2024	
	31.08.2024	
	01.09.2024	Sunday
7	02.09.2024	Inversion of temp / types of Inversion of temp
	03.09.2024	Meaning, measurement, Effect and temp. of Air Pressure
	04.09.2024	Vertical Distribution of Air Pressure.

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Maharani Kishori Jat Kanya Mahavidyalaya Rohtak

Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof/ Associate Prof. Dr. Swati Chandhary
 Class BA (H) 2nd Sem. Subject Physical Geog. II

Week	Date	Topic
	05.09.2024	Horizontal dis. of Air Pressure,
	06.09.2024	—
	07.09.2024	—
	08.09.2024	Sunday
8	08.09.2024	—
	09.09.2024	Winds and shifting of wind, Belts.
	10.09.2024	Role of water vapour in Hydrological cycle.
	11.09.2024	Ways to Express Humidity.
	12.09.2024	Evaporation.
	13.09.2024	—
	14.09.2024	—
	15.09.2024	Sunday
9	16.09.2024	Holiday
	17.09.2024	CL
10 th	18.09.2024	CL
	20.09.2024	CL.
	21.09.2024	—
	22.09.2024	Sunday
10	23.09.2024	Shahidi Diwas
	24.09.2024	Koepfen's classification.
	25.09.2024	Evaluation of Koepfen's classification.
	26.09.2024	Condensation.
	27.09.2024	—
	28.09.2024	—
	29.09.2024	Sunday
11	30.09.2024	Temp change, clouds and precipitation
	01.10.2024	Distribution of Pressure, general introduction.
	02.10.2024	Mahatma Gandhi Jayanti
	03.10.2024	Maharaja Agrsain Jayanti
	04.10.2024	—
	05.10.2024	—
	06.10.2024	Sunday
12	07.10.2024	Elections Holiday
	08.10.2024	"
	09.10.2024	CL
	10.10.2024	DISTRIBUTION of Rainfall, Hydrological cycle.
	11.10.2024	—
	12.10.2024	Dashhara
	13.10.2024	Sunday
13	14.10.2024	Meaning and classification of Air masses.
	15.10.2024	Drift of Air mass, Rain fall Deviation Diagram.
	16.10.2024	Cyclones.
	17.10.2024	Maharshi Valmiki Jayanti
	18.10.2024	—
	19.10.2024	—

Maharani Kishori Jat Kanya Mahavidyalaya Rohtak

Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof/ Associate Prof. Dr. ANITA CHAUDHARY

Class B.A. II 11th Sem.

Subject Physical Geog - II

Week	Date	Topic
	20.10.2024	Sunday
14	21.10.2024	Climate change and Global Warming.
	22.10.2024	Ocean floor
	23.10.2024	Classification of Ocean floor.
	24.10.2024	Temperature and Salinity of Ocean water.
	25.10.2024	-
	26.10.2024	-
	27.10.2024	Sunday
15	28.10.2024	Diwali Vacation
	29.10.2024	Diwali Vacation
	30.10.2024	Diwali Vacation
	31.10.2024	Diwali Vacation
	01.11.2024	Deepawali
	02.11.2024	Vishwakarma Diwas
	03.11.2024	Sunday
16	04.11.2024	Sea waves & Causes of wave formation.
	05.11.2024	CL.
	06.11.2024	Types of waves.
	07.11.2024	Ocean Currents and Causes of Origin of O.C.
	08.11.2024	-
	09.11.2024	-
	10.11.2024	Sunday
17	11.11.2024	Currents of Indian Ocean.
	12.11.2024	Currents of Atlantic Ocean.
	13.11.2024	Currents of Pacific Ocean.
	14.11.2024	Effects of Ocean Currents.
	15.11.2024	Guru Nanak Dev Jayanti
	16.11.2024	
	17.11.2024	Sunday
18	18.11.2024	Tides.
	19.11.2024	Oceans - Gateway to Resources.
	20.11.2024	Oceans and food and Minerals.
	21.11.2024	Oceans and power resources, drinking water, drugs.
	22.11.2024	-
	23.11.2024	-
	24.11.2024	Sunday
19	25.11.2024	Oceans & climate
	26.11.2024	Oceans Trade and Transport
	27.11.2024	Oceans Pollution -
	28.11.2024	and Conservation of Marine Resources.
	29.11.2024	-
	30.11.2024	-

CLASS FRIDAY SATURDAY.
2 DAYS.

Maharani Kishori Jat Kanya Mahavidyalaya Rohtak
Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof/ Associate Prof. DR. ANITA CHAUDHARY.

Class B.A. 1st year MAJOR

Subject PHYSICAL GEOGRAPHY - I

PART - A -

Week	Date	Topic
1	22.07.2024	
	23.07.2024	
	24.07.2024	
	25.07.2024	
	26.07.2024	
	27.07.2024	
	28.07.2024	Sunday
2	29.07.2024	
	30.07.2024	
	31.07.2024	Shahid Udham Singh Shahidi Diwas
	01.08.2024	
	02.08.2024	NATURE and Scope of Physical Geography.
	03.08.2024	CL
	04.08.2024	Sunday
3	05.08.2024	
	06.08.2024	
	07.08.2024	
	08.08.2024	
	09.08.2024	Earth Interior - Sources.
	10.08.2024	Chemical Composition and Layering of earth.
	11.08.2024	Sunday
4	12.08.2024	
	13.08.2024	
	14.08.2024	
	15.08.2024	Independence Day
	16.08.2024	HOLIDAY.
	17.08.2024	Thickness and depth of different layers of earth.
	18.08.2024	Sunday
5	19.08.2024	Raksha Bandhan
	20.08.2024	
	21.08.2024	
	22.08.2024	
	23.08.2024	Modern views regarding constitution of earth's interior.
	24.08.2024	Igneous Rocks.
	25.08.2024	Sunday
6	26.08.2024	Krishan Janmashtmi
	27.08.2024	
	28.08.2024	
	29.08.2024	
	30.08.2024	Sedimentary rocks.
	31.08.2024	Metamorphic Rocks.
	01.09.2024	Sunday
7	02.09.2024	
	03.09.2024	
	04.09.2024	

Anita Chaudhary.

Maharani Kishori Jat Kanya Mahavidyalaya Rohtak

Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof/ Associate Prof... Dr. Anita Chaudhary

Class B.A.D.C. - Ist Sem. MAJOL

Subject Physical Geography - I Part A

Week	Date	Topic
	05.09.2024	
	06.09.2024	Endogenetic forces.
	07.09.2024	Exogenetic forces.
	08.09.2024	Sunday
8	08.09.2024	
	09.09.2024	
	10.09.2024	
	11.09.2024	
	12.09.2024	
	13.09.2024	Continental Drift theory.
	14.09.2024	Classification of land forms.
	15.09.2024	Sunday
9	16.09.2024	
	17.09.2024	
	18.09.2024	
	20.09.2024	Plate Tectonic theory.
	21.09.2024	Sea spreading theory.
	22.09.2024	Sunday
10	23.09.2024	Shahidi Diwas
	24.09.2024	
	25.09.2024	
	26.09.2024	
	27.09.2024	Volcanoes types.
	28.09.2024	Volcanoes Distribution
	29.09.2024	Sunday
11	30.09.2024	
	01.10.2024	
	02.10.2024	Mahatma Gandhi Jayanti
	03.10.2024	Maharaja Agrsain Jayanti
	04.10.2024	DUE TO election Holiday
	05.10.2024	"
	06.10.2024	Sunday
12	07.10.2024	"
	08.10.2024	"
	09.10.2024	
	10.10.2024	
	11.10.2024	Earthquake - measurement.
	12.10.2024	Dashhara
	13.10.2024	Sunday
13	14.10.2024	
	15.10.2024	
	16.10.2024	
	17.10.2024	Maharshi Valimiki Jayanti
	18.10.2024	Earthquake Distribution
	19.10.2024	Denudational processes - weathering

Anita Chaudhary

Maharani Kishori Jat Kanya Mahavidyalaya Rohtak

Day wise Lesson Plan for the session August 2024 to April 2025

Name of the Assistant Prof. Associate Prof. Dr. Anita Chaudhary

Class B.A. PSI Major. 1st Sem. Subject Physical Geog. I Part A

Week	Date	Topic
14	20.10.2024	Sunday
	21.10.2024	
	22.10.2024	
	23.10.2024	
	24.10.2024	
	25.10.2024	CL
	26.10.2024	Mass Movements.
	27.10.2024	Sunday
15	28.10.2024	Diwali Vacation
	29.10.2024	Diwali Vacation
	30.10.2024	Diwali Vacation
	31.10.2024	Diwali Vacation
	01.11.2024	Deepawali
	02.11.2024	Vishwakarma Diwas
	03.11.2024	Sunday
16	04.11.2024	
	05.11.2024	
	06.11.2024	
	07.11.2024	
	08.11.2024	Erosional work of river.
	09.11.2024	Transportational & Depositional work of river.
	10.11.2024	Sunday
	11.11.2024	
17	12.11.2024	
	13.11.2024	
	14.11.2024	
	15.11.2024	Guru Nanak Dev Jayanti
	16.11.2024	Landforms generated by river in upper part.
	17.11.2024	Sunday
	18.11.2024	
18	19.11.2024	
	20.11.2024	
	21.11.2024	
	22.11.2024	Landforms generated by river in middle and lower part.
	23.11.2024	Wind Erosional work of river.
	24.11.2024	Sunday
	25.11.2024	
19	26.11.2024	
	27.11.2024	
	28.11.2024	
	29.11.2024	Wind - depositional work and Erosional work.
	30.11.2024	Effe cycle of Erosion - Davis

Anita Chaudhary

P.M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Geography

Lesson Plan

Session: - 2023-24

Class:- BA II

Subject:- Economic Geography.

Semester:- 5th sem.

Name of Subject Teacher:- Dr. ANITA CHAUDHARY.

Month	Topic
August	Nature and Scope of Economic Geography. Classification of Economic Activities.
September	World Natural Resources. Utilization and Conservation of Natural Resources.
October	Agricultural Resources. Mineral Resources. Manufacturing Industries.
November	Transport and Communication. International Trade.

Anita Chaudhary.

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of GEOGRAPHY.

Lesson Plan

Session: - 2023-24.

Class:- BA IInd Year.

Subject:- HUMAN GEOGRAPHY.

Semester:- Vth Semester

Name of Subject Teacher:- Dr ANITA CHAUDHARY.

Month	Topic
Jan.	Nature and Scope of Human Geog. Branches of Human Geography. Spatial distribution of race and tribes of India.
Feb.	Human adaptation to the environment Meaning, Nature, and components of resources. Classification of Resources.
March	Distribution and Density of World Population. Concept of Over, Under and optimum population. Theories of Population.
APRIL	Rural and Urban Settlements Origin classification and functions of Towns. Population pressure, Resource Use, and Env. degradation. Sustainable Development. Concept of Deforestation.

Anita Chaudhary.

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of GEOGRAPHY.

Lesson Plan

Session: - 2023-24.

Class:- BA IInd year.

Subject:- Physical Geography.

Semester:- IIIrd.

Name of Subject Teacher:- Dr. ANITA CHAUDHARY.

Month	Topic
Aug.	Weather and climate. Composition and structure of atmosphere. Insolation and temperature.
Sep.	Atmospheric Pressure and winds. Atmospheric Humidity and precipitation Air masses, Fronts and Cyclones, climatic classification. climatic change and global warming.
Oct.	Surface Configuration of Ocean floor Temperature and Salinity of Oceanic water. Circulation of Oceanic water.
Nov.	Circulation of Oceanic water Oceanic Resources.

Anita Chaudhary

Name of A.P.
Dr. Anita Lalia

B.Sc - 1st Year
Subject (Mathematics)

(1st Sem)
Session (2023 - 2024) (Algebra)

July.

Symmetric, skew-symmetric and Hermitian and skew-Hermitian matrices.

August.

Solutions of cubic equations. (Cardan's method) Bi-quadratic eqⁿ
Elementary operations on matrices. Rank of a matrix. Inverse of a matrix. Linear dependence and independence of rows and columns of matrices.

September.

Row rank and column rank of a matrix. Eigen values, eigen vectors and the characteristic equation of a matrix. Minimal polynomial of a matrix. Cayley-Hamilton theorem and its use in finding inverse of a matrix.

October.

Applications of matrices of a system of linear (both homogeneous and non-homogeneous) equations. Theorems on consistency of a system of linear equations. Unitary and orthogonal matrices, Bilinear and Quadratic forms.

November.

Relations between the roots and co-efficients of general Poly. equation in one variable. Solutions of poly. equations having conditions on roots. Nature of roots of an equation. Descartes's rule of signs.

Name of A.P.
Dr. Anita Gulia

B.Sc. — Ist Year.
Subject (Mathematics) (I^{Ind} semester) (Ordinary diff equations)
Session (2023 — 2024)

January

Geometrical meaning of a diff. equation. Exact differential equations, integrating factors, first order higher degree eqⁿ. Integrating factor. Lagrange's equations, Clairaut's equations. Equations reducible to Clairaut's form.

February

Singular solutions. Orthogonal trajectories in Cartesian co-ordinates and polar co-ordinates. Self orthogonal family of curves. Linear diff eqⁿ with constant co-efficients. Homogeneous linear ordinary diff eqⁿ.

March

Equations reducible to homogeneous. Linear diff equations of second order. Reduction to normal form. Solution by operators of non-homogeneous linear diff eqⁿ. Reduction of order of a diff. eqⁿ. Method of variations of parameters.

April

Ordinary simultaneous diff eqⁿ. Solution of simultaneous diff eqⁿ involving operators x (d/dx) or t (d/dt) etc. Condition for $Pdx + Qdy + Rdz = 0$ to be exact. Method of auxiliary eqⁿ.

Name of A.P.
Dr. Anita Gula

B.A. - BSC - IIIrd Year. (Numerical Analysis)
subject (mathematics) session (2023-2024) (1st Sem)

July

Finite difference operator and their relations. Finding the missing terms & effect of error in a difference tabular values. Interpolation with equal intervals.

August

Newton's forward and Newton Backward interpolation formulae. Sterling, Bessel formula. Probability distribution of random variables, Binomial distribution, Poisson's distribution, Normal distribution.

September

Numerical Differentiation: - Derivative of a function using interpolation formulae as studied in section I + II. Eigen values Problem power method, Jacobi's method, QR-method, Lanczo's method.

October

Numerical Integration: - Newton-Cotes's Quadrature formula, Trapezoidal rule Simpson's one-third + 3/8 rule, Chebychev-formula, Gauss Quadrature formula.

November

Single step method - Picard's method, Taylor's series method. Euler's method, Runge-Kutta method, modified Euler's method, Milne-Simpson's method. practicals: - Implementation of numerical method studied in the theory paper in 'C' programming language.

Name of A.P.
Dr. Anita Gulia

B.A + B.Sc - II Year (Programming in C + Numerical methods)
Subject (Mathematics) Session - (2023-2024) (IIIrd Sem)

January - Programmer's model of a computer.
Algorithms, flow charts.

February - Data Types, operators and expressions,
Input/output functions. Decision control structure
Decision statements, Logical and conditional statements,
Implementation of Loops, Switch statement and case ^{control}.

March - Functions, Preprocessors Arrays. String - character data
type, structures, definition, using structures, use in
array, Pointer - pointers data type, pointers & Array.
Pointer & functions.

April - Solution of algebraic & Transcendental equations: -
Bisection method, Regula-falsi, Secant method, Newton-
Raphson's method, Newton iterative method.
Gauss-elimination, Gauss-Jordan (LU decomposition method),
Cramer's method, Jacobian's method, Gauss-Seidel's method.
Relaxation method.

Practical: - simple programme in C & the
implementation of numerical methods studies.
in the theory paper in C programming language.

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Lesson Plan 2023-24

Name of Teacher - Dr. ANSHU

M.Sc Physics(F) Sem-III

Paper - Nuclear & Particle Physics

August	Two nucleon problem: common Potentials used for calculation of nuclear forces viz. Wigner, Majorana, Bartlett and Heisenberg potentials. The ground state of deuteron. Square well solution. Nucleon-Nucleon scattering. Effective range theory in n-p scattering & Significance of sign of scattering length. Meson theory of nuclear force. Types of nuclear rx'ns, compound & direct nuc. rx'ns. Reaction cross-section, Partial wave treatment. Balance of mass & energy in nuclear rx'ns. α - α' & Solution.
September	Liquid drop model: Simulates b/w liquid drop & nucleus, Semi-empirical mass formula, Mass parabolas, stability limits against spontaneous fission, Merits & Limitations of liquid drop model. Shell Model: Experiment evidences for shell effect, Magic no's, Main assumptions of the single particle shell Model, Spin-orbit coupling in single particle shell Model. Estimation of spin, parities & Magnetic moments of nuclei by single particle shell Model.
October	Nuclear Decays: Alpha decay, α -disintegration energy, Range of α -particles, Range-energy relationship for α -particles & Geiger-Nuttall law, Beta decay, Pauli's neutrino hypothesis, Fermi theory of beta decay, Curie plot, Selection Rules for beta decay, Fermi and Gamow-Teller Transitions, Detection & Properties of neutrons, Gamma decay, Multipole transitions in nuclei, Angular mom. & parity selection rules, Internal conversion, Nuclear isomerism
November	Elementary Particle Physics: classifications of elementary particles: fermions & bosons, particles & antiparticles, Fundamental interactions in nature, Types of interaction b/w elementary particle: Symmetry & conservation laws: classification of hadrons, strangeness, hypercharge, Gellerman-Nishijima formula, Elementary ideas of CP & CPT invariance, Quark model, Baryon Octet, Meson Octet, Baryon Decuplet, Gell-Mann-Okubo formula for octet & decuplet, the necessity of introducing color quantum no., SU(2) & SU(3) multiples.

January

February

March

April

Crystalline Solids, Lattice, Basis, lattice translational vectors, Direct lattice, 2D dim. Bravais lattice, Unit cells of FCC, BCC, NaCl, CsCl, Diamond & ZnS, Primitive lattice of FCC, BCC, HCP. P.F of SC, FCC, HCP & diamond str. Illustration of X-rays with matter. Absorption of X-ray. Elastic scattering from a perfect lattice. The reciprocal lattice & its application to diffraction techniques. Ewald's construction. Neve, powder & rotating crystal method. Atomic form factor, crystal st. factor & intensity of diffraction maxima crystal st. factors of BCC, FCC, monoclinic diamond lattice, Polyatomic crystal.

Vibration of 1-dim mono & diatomic chains, Phonon momentum, Density of normal modes in 1 & 3 dims. Quantization of lattice vibrations, Measurement of phonon dispersion using inelastic neutron scattering. Point defects, line defects & planar faults. Fundamental ideas of hole of dislocation in plastic deformation & crystal growth. Observation of impurity in crystals, X-rays & electron microscope techniques.

Electron in periodic lattice, Bloch theorem, Kronig-Penny model & Band theory classification of solids, Effective mass, Weak-binding method & application to linear lattice. Tight-binding method & its application to SC, BCC & FCC. Concept of Holes, Fermi surface, construction of Fermi surface in 2-dim, de Haas van Alphen effect, cyclotron resonance, Magneto-resistance.

Wess theory of ferromagnetism, Heisenberg model & molecular field theory of ferromagnetism of spin waves & magnons, Curie-Weiss law for susceptibility, Ferri & anti ferri mag. order, Domains & Bloch wall energy. Occurrence of superconductivity: Meissner effect, Type-1, 2, all superconductors, Heat capacity, Energy gap Isotope effect, London eqⁿ, coherence length, BCS theory. Persistent current High temp. Oxide Super conductors.

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Day of the Week	1	2	3	4	5	6	7
Tuesday							
Saturday							
Sunday							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							

Name of Teacher
Dr Deepika

B.Sc-IInd year 2023-24 Semester-III
Lesson Plan - Paper-2 (Computer Prog & Thermodyna
Monthly Basis (July 2023 - Dec 2023)

July

1. Computer Organization
 2. Binary Representation
 3. Algorithm development
 4. Flow charts and their interpretation
 5. Fortran Preliminaries
1. Inleges & Floating points arithmetic expression
 2. Built in functions, Input-Output statements
 3. IF, DO & GOTO statements
 4. Dimensions Array, Function subprogram

August

1. Second Law of Thermodynamics
2. Carnot theorem
3. Absolute scale of Temperature, Absolute zero, entropy
4. T-S diagram
5. Joule Free expansion

September

1. Joule Thomson Effect
2. liquefaction of gas.
3. Clausis Clapeyron Equation
4. Phase diagram & Triple point

October

1. Maxwell's Equation & Application
2. Sp. heats of Thermodynamical variables
3. Thermodynamic functions (U, E, H, G) and Relation b/w them

November

Deepika

B.Sc. IInd 2023-24

Lesson Plan - Paper-II Optics-I

Monthly Basis (July-2023 - Dec-2023)
Semester-IIIrd

Name of Teacher
Dr. Deepika

July

1. Introduction to Optics
2. Speed of Transverse waves on a uniform string.
3. Speed of longitudinal waves in a fluid
4. Superposition of waves

August

1. Fourier Analysis of complex waves.
2. Solution of Triangular waves
3. Solution of Rectangular waves
4. Half wave rectifier,

September

1. Full wave rectifier
2. Fourier Transforms and its property
3. Application of Fourier Transform.
 $f(x) = e^{-x^2/2}$
 $|f(x)| = 1$ $|x| \leq 9$

October

1. Naïve methods in paraxial optics,
2. Effects of Translation & reflection
3. Derivation of Thin & Thick lens formulae
4. Unit & nodal planes, system of Thin lens.

November

1. Aberrations and their Remedies
2. Fresnel's Biprism
3. Determination of wavelength of sodium light
4. Thickness of mica sheet
5. Lloyd's Mirror \rightarrow phase change on reflection

Dr. Deepika

Class Teacher
Dr Deepika
(Physics)

Semester-IVth

B.Sc. Ind. 2023-2024

Lesson Plan Paper-II (Statistical Physics)

(January-2024 - April-2024)

(Optimised)

January - 2024

1. Probability and its examples
2. Combination possessing minimum & maximum probability
3. Distribution of molecules in two boxes
4. Case with weightage

February - 2024

1. Phase space
2. Microstates and macrostates
3. Statistical fluctuation
4. Constraints and accessible states
5. Postulates of statistical physics

March - 2024

1. μ Equilibrium μ two systems in thermal contact
2. h - parameters
3. Entropy & probability
4. Boltzmann distribution law
5. B-E statistics

April - 2024

1. Application of B-E statistics to Planck's law, B-E gas
2. F.D statistics
3. B-E condensation
4. F.D gas, Electron gas in metal,
5. Zero point energy, Sp. heat of metals and its solidum

Class
Teacher
- Dr Deepika

B.Sc - IInd. (Physics)
Lesson Plan. (January - 2024 - April - 2024)
Paper - II (Optics - II)
Semester - IVth

January
- 2024

1. Colour of Thin Films
2. Wedge shaped film
3. Newton's Ring
4. Michelson's Interferometer & its application

February
- 2024

1. Standardisation of meter
2. Determination of wavelength
3. Fresnel's Diffraction
4. Half period & Zone plate

March
- 2024

1. Diffraction at a rt. edge, rectangular slit, & circular aperture
2. Fraunhofer diffraction Two slit, N-slit
3. Plane transmission grating spectrum
4. Dispersive power of a grating
5. Resolving power of telescope and a grating

April
- 2024

1. Polarisation
2. Malus Law & Huygen's theory of double reflection
3. Nicol Prism Quarter & half wave plate
4. P.P / C.P / E.P polarised
5. Optical activity, Polarimeters

Deepika

Lesson Plan 2023-24

Name of Teacher: Dr Deepika | Semester - I
 M.Sc. Physics Classical Mechanics

- August
1. Lagrangian formulation.
 2. Conservation laws, constraints
 3. Generalized coordinates & momenta
 4. Virtual work & D'Alembert's Principle.
 5. Velocity dependant & dissipation function

- September
1. Cyclic - coordinates
 2. Application of Lagrangian formulation
 3. Invariance of Lagrangian under Galilean transformation
 4. Motion in central force field.
 5. Two body problem reduction to one body
 6. Diff. Eqn for orbit, Kepler's laws

- October
1. Rutherford scattering
 2. Hamilton's Eq, Variational Principle,
 3. Principle of least action and its form
 4. Hamilton-Jacobi eqⁿ and their solution
 5. Hamilton principle function
 6. Hamilton eq. function & properties

- November
1. Canonical Transformation, Properties of Poisson Bracket.
 2. Angular momenta, Jacobi identity
 3. Invariance of Poisson Bracket
 4. Potential energy - stable, unstable - Neutral equilibrium
 5. Theory of small oscillation, simple pendulum
 6. Free vibration of a linear molecule
- Deepika

Name of Teacher - Dr Deepika Semester II Ind

M.Sc. Physics - Atomic and Molecular Physics

January

1. One e⁻ systems & Pauli principle
2. Atomic orbitals, Hydrogen spectrum
3. Alkali elements spectra
4. Spectra of two e⁻ system
5. Equivalents & non equivalent e⁻

February

1. Two e⁻ system
2. Hyperfine structures, line broadening
3. Normal & anomalous Zeeman effect
4. Paschen Back, Stark effect
5. Two electron systems, LS & JT coupling,

March

1. Diatomic molecules, Rotational spectra
2. Diatomic linear, symmetric, asymmetric top molecules
3. Spherical top molecules, Rotational spectra of rigid rotors
4. Energy levels of non-rigid rotors
5. Intensity of rotational lines

April

1. Vibrational & Rotational Vibrational spectra.
2. Vibrational energy of diatomic molecule
3. Simple harmonic oscillator.
4. Morse potential energy curve
5. PQR Branches.

Deepika

P.M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Chemistry

Lesson Plan

Session: - 2023-24

Class:- B.Sc - III (Med and N.M.)

Subject:- Inorganic Chemistry and Physical Chemistry

Semester:- 5th

Name of Subject Teacher:- Dr. Lecta

Month	Topic :- <u>Inorganic Chemistry</u>
August	1. Metal-ligand Bonding :- Limitations of V.B.T, Crystal field theory → Splitting in Octahedral, tetrahedral and square planar complexes, factors affecting splitting. Physical Chemistry → Rotational and vibrational spectra.
September	2. Thermodynamic and Kinetic Aspects :- Thermodynamic stability of metal complexes and factors affecting. Irving William Series, Substitutions reactions, Trans effect. Physical Chemistry → Raman Spectrum, Physical Properties
October	3. Magnetic Properties :- Types of magnetic materials, methods, magnetic susceptibility, L-S coupling, orbital contribution, applications Physical Chemistry → Optical activity, polarization, Dipole moment, structure, magnetic permeability.
November	4. Electronic Spectra :- Selection Rules, Term symbol, Orgel diagrams, electronic spectrum Physical Chemistry → Quantum Mechanics :- Black body radiation, Planck's radiation law, Photo-electric effect, Operators, wave function, 1D box

Lecta

P.M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Chemistry

Lesson Plan

Session: - 2023-24

Class:- B.Sc- III (Med. and N.M.)

Subject:- Inorganic Chemistry and Physical Chemistry

Semester:- 6th

Name of Subject Teacher:- Dr. Geeta

Month	Topic :- Inorganic Chemistry
January	1. Organometallic Chemistry → Nomenclature, classification, Preparation, properties and bonding in Li, Al, Hg and Sn, Metal-Ethylenic complexes, Carbonyls. Physical Chemistry → Electronic Spectroscopy
February	2. Acids and Bases :- Arrhenius, Bronsted-Lowry, Lux-Flood, Lewis and Solvent system concepts, relative strength, HSAB principle, Symbiosis Physical Chemistry → Photochemistry :- Laws, Jablonski diagram, Fluorescence, Phosphorescence, N.R. process.
March	3. Bioinorganic Chemistry :- Metalloporphyrins, Biological role of alkali and alkaline metals, Nitrogen fixation. Physical Chemistry → Solutions :- Ideal, Non-ideal Raoult's Law, Osmosis, Elevation, Degree of dissociation
April	4. Silicones and Phosphazenes :- Preparation, Properties, structure and uses. Physical Chemistry → Phase Equilibrium: Gibbs Phase rule, water, Sulphur system, Pb-Ag system, desilverisation of lead.

Geeta

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed.

Semester :- 4th

Subject:- Health Education & sports nutrition

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Concept of Health: Meaning, definition and its different dimensions. - Characteristics of healthy individual. - Concept of Health Education: meaning, need and importance. - School Health Programme and Health Environment. - Health during camp and travelling. - Factor affecting health and wellness.
FEBRUARY	Communicable disease: Symptoms and preventions (HIV/Aids, Tuberculosis, Malaria, Rabies). - Substance abuse: Smoking, Tobacco, Alcohol and its effects on sports performance. Meaning of nutrition, Nutrition and Physical performance - Carbohydrate: importance in performance, quantity to be consumed before, during and after exercise.
MARCH	Role of Protein in performance, its requirements in strength, endurance, muscle building and in weight loss - Effect of exercise on Protein requirement - Fat, types of fat (simple fat, saturated fat, unsaturated fat and compound fat) - Role of fat in exercise performance (specially in long duration events
APRIL & MAY	Concept of balance diet - Meaning of the terms – body composition, obesity, overweight, lean body mass. Principles of weight control, weight management techniques - Fluids – dehydration, danger of dehydration, importance of fluids

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed. Semester :- 4th

Subject:- ATHLETICS PRACTICAL

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Pole Vault:-fundamental skills Assembly and roll call, Coaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, finding and correcting fundamental skills errors.
FEBRUARY	Hammer Throw:- fundamental skills Assembly and roll call, Coaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, finding and correcting fundamental skills errors.
MARCH	Hurdles:- fundamental skills Assembly and roll call, Coaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, finding and correcting fundamental skills errors.
APRIL & MAY	Triple Jump:- fundamental skills Assembly and roll call, Coaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, finding and correcting fundamental skills errors.

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

Semester :- 2nd

CLASS:- M.P.Ed.

Subject:- Applied Statistics in Physical Education and Sports

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Meaning of "Data", Methods of Organizing Data through Frequency Distribution. - Meaning of Variability, Measures of Variability and Dispersion – Range, Average Deviation and Standard Deviation. - - Meaning of Percentile Rank, Computation of Percentile Rank.
FEBRUARY	Meaning of Normal Probability Curve, - Characteristics and Properties of Normal Curve. - Application of Normal Probability Curve, - Meaning of Skewness and Kurtosis.
MARCH	Meaning and Types of Correlation , Linear Correlation - Computation of Correlation Coefficient with Product Movement Method and Rank Difference Method. - Meaning of Norm. Construction of norms. - Methods of preparation of norms. Meaning of two Tailed and one Tailed Test of Significance.
APRIL & MAY	Computing Significance of Difference Between two Means with t – Test (Independent Samples). - Calculation of Various Combination of Heads and Tails - Analysis of Variance and Co-variance - Chi-square; t – Score

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B.P.Ed.

Semester :- 4th

Subject:- KINESIOLOGY& BIO-MECHANICS

Name of the teacher:- DR. KUSUMLATA

MONTH	TOPICS
JANUARY	INTRODUCTION Concept of Kinesiology: Meaning, Definition, Scope & Importance. Application of Kinesiology in Phy. Education & Sports Balanced Posture: Common Posture Deformities Corrective Exercises for Postural Defects Injuries, Sprain, Strain & Contusion & their Treatment
FEBRUARY	Terminology of various types of Movements Around Joints. (i) Body planes (ii) Body Axis and their Types (i) Spine (ii) Shoulder (iii) Shoulder Girdle (iv) Hips (v) Elbow (vi) Knee (vii) Ankle Structural Classification of Muscles on the basis of Attachment. Functional Classification of Muscles
MARCH	(iii) Technology of Muscular Attachment (iv) Method of Assessing a Joints Range of Motion (v) Technique for Increasing Joint Flexibility (vi) Basic Concept of Force, Motion, Newton;s Laws, Equilibrium and Centre of Gravity. Characteristics and Functions of Shoulder Joint & Shoulder Girdle Muscles: Deltoid, Latissmus Dorsi, Pectorals Major, Trepzezius Characteristics and Functions of Elbow Joint Muscles.
APRIL & MAY	Biceps Brachi, Brachialis and Triceps Lower Extremity Characteristics and Functions of Hip Joint Muscles; Gluteous Maximum, Characteristics and Function of Knee Joint, Gastrocnemius. Hamstrings, Biceps Femoris, Rectos Femoris, Sartoris Characteristics and Functions of Individual Muscles Rectos Abdorminus, Sterno-Cleidomastoid.

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B. P.Ed. Semester :- 4th

Subject:- Athletics practical

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Hurdle:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
FEBRUARY	Long Jump:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
MARCH	Javelin:- fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
APRIL & MAY	Revision about the hurdle, long jump and Javelin throw events activities their rules and regulations, demonstrations of fundamental skills, fault corrections, their markings, officiating, notebook preparation, and final chart preparation

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B. Sc. Sports Sc. Semester :- 4th

Subject:- HEALTH EDUCATION, FIRST AID AND SAFELY MEASURES

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Meaning of Health, Importance of Health, factors influencing Health Status, Characteristics of healthy individual. Health yesterday and today. New directions for health – health promotion, Physiological health, mental health, emotional health social health, spiritual health & happiness. A key to well being, does laughter enhance health?
FEBRUARY	School health programme and health environment, School building, light renovation, Sanitation, School canteen, School health examination, academic programme, nutrition, balance diet, caloric value of food for competitive sports. Eating for health, today's dieting guide lines medicated value of food.
MARCH	Methods of Education in Health. Health instructions audio-visual methods. Health organizations- world health organizations, Red Cross, government health agencies. Communicable diseases-modes of transmission, control and prevention of following disease- (i) cholera (ii) small-pox (iii) typhoid (iv) malaria (v) influenza
APRIL & MAY	First Aid: Definition and importance of first aid in modern life, types of first aid, first aid box. Reasons of sports injuries, principle of first aid, functions & qualities of a good first aider. - Basic steps in safety measures safety measures for the following (i) bites of animals, burns, control of bleeding, cuts and wounds. Safety for drawing artificial respiration. Safety measures environmental hazards. Heat stroke, heat syncope, wind chill and sunburn.

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B. Sc. Sports Sc. Semester :- 4th

Subject:- Game Practical

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
JANUARY	Table Tennis:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
FEBRUARY	Shooting:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
MARCH	Wrestling:- fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
APRIL & MAY	Revision about the Table Tennis, Shooting and Wrestling activities their rules and regulations, demonstrations of fundamental skills, fault corrections, their markings, officiating, notebook preparation, and final chart preparation

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B. Sc. Sports Sc. Semester :- 6th

Subject:- Project Report Practical

NAME OF THE TEACHER:- DR. KUSUMLATA

MONTH	TOPICS
JANUARY	Topic provided to each student about the current problem of sports, sports tournaments, sports championships and other topics related to sports activities. Each student makes their project on any Sports related topic.
FEBRUARY	Students prepare their Progressive report and are checked by the teacher, Necessary corrections will be made.
MARCH	Students prepare their Progressive report and are checked by the teacher, Necessary corrections will be made.
APRIL & MAY	Students prepare their Progressive report and are checked by the teacher, Necessary corrections will be made. Students will be complete their project report and submit it to in the department

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed.

Semester :- 3rd

Subject:- Test, Measurement and Evaluation in Physical Education

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
July & August	Meaning of Measurement and evaluation - Principle, need and importance of Measurement and evaluation in Physical Education. - Relationship between test and test Measurement and evaluation. - Classification of Test : Standardized and Teacher Made Test (Objective & Subjective Test) - Construction of Test: Knowledge Test (Written Test) and Skill Test(Psychomotor test)
September	Administration of test and Measurement Technique - Organizing and administering the testing programme - Defining the problem, selecting test, scoring the test, determination of validity and reliability of test - Meaning of physical fitness and motor fitness: Krausweber test, Roger's Strength Test, Macloy Strength Test,
October	Nature of Motor ability tests; Philip's JCR Test, Indian Motor fitness Test, AAHPER Youth Fitness Test, Barrow Motor Ability Test, Scott Motor Ability Test, - Cardiovascular Test – Tuttle Pulse Ratio Test, Harvard Step Test/Queen's College Test, Copper's 12 minute run walk test, Test of Specific Sports Skill: - Badminton - French Short Serve and Clear Test, Miller Wall Volley Test
November	- Basket Ball – Johnson Basketball Test, Knox basketball Test, AAPHERD Basketball Test - Hockey – Schmithals – French Field Hockey Test- Friedel Field Hockey Test - Soccer – Warner Soccer Test, McDonald Soccer Skill Test, Johnson Soccer Test, AAPHERD Football Skill Test - Tennis – Dyer Tennis Test, Broer-Miller forhand-backhand Drive Test, Petry volleyball Serve Test. - Volleyball – Brady Volleyball Test, Russel-Launge volleyball Test - Handball – Cornish Handball Test - Iowa Posture Test

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed.

Semester :- 3RD

Subject:- Science of Teaching & Coaching game (Volleyball)

Name of the teacher:- DR. KUSUM LATA

MONTH	TOPICS
July & August	<ul style="list-style-type: none">- Origin of Game - History of Volley Ball- Ancient History of Volley Ball- Haryana History of Volley Ball- Role of Haryana's People for the Development of Volley Ball Game.
September	<ul style="list-style-type: none">Length and Width of Volley Ball Court.- Height of Volley Ball Net- Length and Width of Volley Ball Net- Total Number of Volley Ball Players- Interpretation of Rules
October	<ul style="list-style-type: none">- Smash (ii) Blocking (iii) Lifting (iv) Underhand (v) Upper Hand Service <p>Strategy and Tactics</p> <ul style="list-style-type: none">- Rotation- Placing of Libero- Placing of Players- Dropping
November	<ul style="list-style-type: none">Number of referee- Duties of referee- Duties of Lineman- Technical Officials

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed.

Semester :- 3RD

Subject:- Game Practical

Name of the teacher:- DR. KUSUM LATA

Month	TOPICS
July & August	Assembly and roll call, Coaching about class formations Lesson on Command on break off. Hockey and boxing:- Coaching of Fundamental skills, marking, rules and regulations, officiating, fault detection, removal of fault, corrective exercises, and teaching aids for corrective exercise. Coaching about warming up exercises both general and specific.
September	Wrestling And handball:- Coaching of Fundamental skills, marking, rules and regulations, officiating, fault detection, removal of fault, corrective exercises, and teaching aids for corrective exercise. Coaching about warming up exercises both general and specific.
October	Basketball and korfbal:- Coaching of Fundamental skills, marking, rules and regulations, officiating, fault detection, removal of fault, corrective exercises, and teaching aids for corrective exercise. Coaching about warming up exercises both general and specific.
November	Volleyball and Kabaddi:- Coaching of Fundamental skills, marking, rules and regulations, officiating, fault detection, removal of fault, corrective exercises, and teaching aids for corrective exercise. Coaching about warming up exercises both general and specific.

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B.P.Ed.

Semester :- 3RD

Subject:-- RESEARCH AND STATISTICS IN PHYSICAL EDUCATION

Name of the teacher:- DR. KUSUM LATA

Month	TOPICS
July & August	Definition of Research • Need and importance of Research in Physical Education and Sports. • Scope of Research in Physical Education & Sports. • Classification of Research • Research Problem, Meaning of the term, Location and criteria of Selection of Problem, Formulation of a Research Problem, Limitations and Delimitations.
September	Need for surveying related literature. • Literature Sources, Library Reading • Research Proposal, Meaning and Significance of Research Proposal. • Preparation of Research proposal / project. • Research Report: A group project is to be undertaken by a small batch of students under the supervision of a teacher, wherein it is expected to survey school facilities of physical education, health assessment programme evaluation, fitness status of the students, staff and other stakeholders etc. and submit the report to the institution.
October	Statistics: Meaning, Definition, Nature and Importance • Class Intervals: Raw Score, Continuous and Discrete Series, Class Distribution, Construction of Tables • Graphical Presentation of Class Distribution: Histogram, Frequency Polygon, Frequency Curve. Cumulative Frequency Polygon, Ogive, Pie Diagram
November	Statistical Models in Physical Education and Sports • Measures of Central Tendency: Mean, Median and Mode-Meaning, Definition, Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data • Measures of Variability: Meaning, importance, computing from group and ungroup data • Percentiles and Quartiles: Meaning, importance, computing from group and ungroup data

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- M.P.Ed.

Semester :- 3RD

Subject:- Athletics Practical

Name of the teacher:- DR. KUSUM LATA

Month	
July & August	Middle & Relay- Race:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
September	Triple Jump:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
October	Shot-Put:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
November	Revision about the Middle & Relay- Race, Triple Jump, Shot-Put events activities their rules and regulations, demonstrations of fundamental skills, fault corrections, their markings, officiating, notebook preparation, and final chart preparation

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B. Sc. Sports Sc. Semester :- 3RD

Subject:- Athletics Practical

Name of the teacher:- DR. KUSUM LATA

Month	
July & August	400 Meter Race:- fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
September	800 Meter Race:- fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
October	1000 Meter Race:-fundamental skills, rules & regulations, officiating, markings Assembly and roll call, Teaching about class formations Lesson on Command on break off. Coaching about warming up exercises both general and specific. Pole vault. Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections
November	Revision and chart preparation of 400 M., 800 M., and 1000 M. Races fundamental skills, rules & regulations, officiating, markings Coaching lessons on fundamental skills, Demonstration, presentation and fault corrections.

MAHARANI KISHORI JAT KANYA MAHAVIDYALAYA, ROHTAK
DEPARTMENT OF PHYSICAL EDUCATION
LESSON PLAN SESSION - 2023-24

CLASS:- B.A.

Semester :- 1ST

Subject:- Principles and foundations of Physical Education

Name of the teacher:- DR. KUSUM LATA

Month	TOPICS
July & August	Definition, Objectives, Scope & Importance of Physical Education. - Historical development of Ancient Olympic - Historical development of national games of India. Practical
September	Biological Basis of Physical activity (a)-Exercise: Types of Exercise (b) Growth and Exercise, (c)Exercise and well being, (d) Body types - Growth of Physical Education in India: (i) LNUPE (ii) SAI NSNIS (iii) YMCA (iv) IOA, Practical
October	Modern Olympic Revival and progress - Performance of Indian Players in Modern Olympic and Asian games. Practical
November	Sports Awards in India - (a) Arjuna Award (b) Daronacharya Award (c) Khel Ratan Award (d) Bhim Award (Haryana) (e) Maulana Abdul Kalam Azad Trophy. Practical

LESSON PLAN

SESSION 2023-24

CLASS :- B. Com (Hons.) Ist

ODD SEMESTER

Subject :- BUSINESS ORGANISATION

Name of Teacher :- Ms. MONA

Semester :- Ist

Month	TOPICS
August	BUSINESS → Concept, nature and Scope, Business as a System Business objectives Business and Environment interface distinction b/w business, Commerce and Trade
Sept, October	Entrepreneurship - Concept and nature, Entrepreneurial opportunities in Contemporary business environment, Process of Setting up a business enterprise Choice of a Suitable form of business organization → feasibility and preparation business plan
November	Government and business interface, Stock Exchanges in India Business Combination - Concept and Causes Chambers of Commerce and Industries in India - FICCI, CII Association

LESSON PLAN
COMMERCE DEPARTMENT

Level :- B.com (IIIrd) Hon.
Date :- 5th
Subject :- Financial Management
Session :- 2023 - 24
Name of a Teacher :- Ms. MONA

MONTH	TOPIC
August	Introduction :- Meaning, function, Scope and Objectives. Financial Planning - Over Capitalization and Under Capitalization
September, October	Capital Structure - Meaning, theories, determinants Dividend decisions - Meaning, type, determinants and theories Cost of Capital - Significance and determination Working Capital - Meaning, nature, determinants, significance and Estimation
November	Leverage analysis Working Capital Mgmt, Cash Mgmt, Receivable Mgmt and Inventory Mgmt.

LESSON PLAN

COMMERCE DEPARTMENT

B. Com (IIIrd) Pass

5th Sem

Subject :- Financial Market Operation

Session :- 2023-24

Name of Teacher :- Ms. MONA

MONTH	TOPICS
August	<u>Money Market</u> → Composition & structure / Acceptance houses (b) Discount houses / Call Money MKT. <u>Capital Market</u> → NIM, Secondary MKT, Stock Exchange.
Sept, October	<u>SEBI</u> → Introduction, Role - Its Power, objectives Scope & function. <u>Investors Protection</u> Financial Services Role, Policy Measures relating to Development Financial Institution in India,
November	functionaries on Stock Exchanges Product & Services offered by IFCI, IDBI, IIBI, SIDBI, EXIM etc. Meaning / Benefits of Mutual funds - types, SEBI Guidelines

LESSON PLAN

COMMERCE DEPARTMENT

B.Com (Ist) Hons

Semester: → I~~st~~

Subject: → Business Management

Session: → 2023-24

Name of Teacher: → Ms. MONA

Month	TOPIC
January	Development of Mgmt Thought Contemporary Approach to Mgmt Communication Planning → Process
Feb, March	Decision making - Concept, process, Rationality, Technique, DSS. Organizing and Staffing Control - Concept and Process, Effective Control System, Modern Control Techniques. → Balance Score Card, Integrated Ratio Analysis, Economic / financial Measure.
April	Motivation - Concept and theories, Maslow, Ouchi, Herzberg, McGregor.

LESSON PLAN
COMMERCE DEPARTMENT

→ B. Com (IInd) Hons.

ster: → 4th Sem

ject: → Corporate Accounting

SSION: → 2023-24

ome of teacher: → Ms. MONA, REKHA, Jyoti, Chandrabasha.

MONTH	TOPIC
January	Amalgamation and Internal Reconstruction of companies as per AS-14.
February & March	Accounts of Banking Companies. Underwriting of Shares and debentures.
April	Liquidation of Companies Double Account system Accounts of Electricity Companies.

LESSON PLAN
COMMERCE DEPARTMENT

→ B.Com (Hons) PASS
 Semester → VIth Sem.
 subject - financial Mgmt
 SESSION - 2023-24
 Name of teacher - Ms. MONA

MONTH	TOPIC
January	<u>Nature of financial Management</u> → Scope of function, financial Manager's role Financial goal, Profit vs Wealth Maximisation Objectives
February / March	<u>Working Capital Mgmt.</u> Meaning, nature and planning of WCM, Permanent and Variable. <u>Capital Structure theory and policy.</u> Relevance of Capital Structure, Net Income and traditional view, Irrelevance, NOI Approach and MM Hypothesis Capital Structure planning and policy Cost of Capital
April	<u>Dividend Theory and Policy</u> Issues in dividend policy, Walter's and Gordon Model, Stability of dividends, Considerations in dividend Policy.

LESSON PLAN
COMMERCE DEPARTMENT

Course :- B.Com (IIIrd) Yr
Semester :- 6th Sem
Subject :- Accounting for Management
SESSION -> 2023-24
Name of teacher - Ms. MONA

Month	TOPIC
January	Management Accounting - Evolution, Meaning, objectives, nature, Scope Valuation of Assets Cash flow statement
February / March	Financial Statements, Accounting for Price level changes. Marginal Costing -> and absorption costing. Cost-Volume Analysis Break-Even Point, Margin of Safety, PIV Ratio. Break Even chart
April	Ratio Analysis, Standard Costing - Meaning, nature, need, Importance, the appraisal methods Concept of Key factor

LESSON Plan
COMMERCE DEPARTMENT

:- B. Com (IIIrd) Yr
 Semester → VIIth Sem
 Subject → Human Resources Management
 Session → 2023 - 24
 Name of teacher → Ms. MONA

MONTH	TOPIC
January	Human Resource Management and Human Resource Planning. function of HRM Human Resource Manager, Qlty Mgmt - BPR <u>HR Planning</u> :- Meaning + Nature of HR Planning Objectives, Benefits, factors.
February / March	Recruitment, Selection, Training and Mgmt development <u>Recruitment</u> :- Meaning, steps in recruitment Techniques Sources and methods / techniques of recruitment <u>Selection</u> :- Meaning / Procedure / Stages <u>Training</u> :- Concept, need, importance Methods of Training - on the Job + off the Job. Management Development →
April	Wage and Salary Administration / Wage Incentives Meaning, objectives and Theories of Wages. Human Resources development, Industrial Relationship, Industrial Unrest.

LESSON PLAN
SESSION 2023-24

Course:- B.Com (Pass) IIIrd Yr
Subject:- International Marketing
Session:- 2023-24
Semester - VI
Name of Teacher :- Ms. MONA

Month	TOPIC
January	<u>International Marketing</u> Nature and Concept, Domestic vs International Marketing, Opportunities and challenges for marketing
February & March	<u>Product Planning and Pricing</u> International Product life cycle Product designing and packaging Pricing process and methods. International Distribution
April	<u>Product Promotion</u> Methods of International product promotion, challenges in International advertising and Media strategy Web Marketing, Organising Trade fairs and exhibitions.

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Mathematics

Lesson Plan

Session: - 2023 - 2024

Class:- B.Sc. - 2nd year

Subject:- Mathematics (Partial Differential Equations)

Semester:- 3rd

Name of Subject Teacher:- Ms. Neha Suhag

Month	Topic
August	Formation, order and degree of a Partial Differential Equation, Linear and non-linear Partial differential equations, Complete solution, Singular solution, General solution. Solution of Lagrange's linear equations, Charpit's general method of solution. Jacobi method.
September	Maternity leave
October	M. Leave
November	M. leave

Neha

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Mathematics

Lesson Plan

Session: - 2023-2024

Class:- B.Sc. - Final year

Subject:- Real Analysis

Semester:- 5th

Name of Subject Teacher:- Ms. Neha Suhag

Month	Topic
August	Riemann integral, Integrability of continuous and monotonic functions, The fundamental theorem of integral calculus, Mean value theorems of integral calculus.
September	Maternity leave
October	M. leave
November	M. leave

Neha

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Mathematics

Lesson Plan

Session: - 2023-2024

Class:- B.Sc. - 2nd year

Subject:- Sequence and Series

Semester:- IV

Name of Subject Teacher:- Ms. Neha Suhag

Month	Topic
January	Bounded sets, least upper bound, greatest lower bound of a set, neighbourhoods, interior points, isolated points, limit points, open set, closed set, interior of a set, closure of a set. Bolzano-Weierstrass theorem, Open covers, Compact sets.
February	Sequence and their convergence, theorems, bounded and monotonic sequences, Cauchy's sequence, subsequence, Infinite series and their convergence and divergence, Comparison tests, Cauchy's general principle of convergence.
March	Infinite series: D'Alembert's Ratio test, Raabe's test, Logarithmic test, de Morgan and Bertrand's test, Gauss test, Cauchy's integral test, Cauchy's condensation test.
April	Alternating series: Leibnitz's test, absolute & conditional convergence, Arbitrary series: Abel's lemma, Abel's test. Insertion and removal of parenthesis, Dirichlet's theorem, Multiplication of series, Cauchy product of series, Convergence & absolute convergence of infinite series.

Neha

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Mathematics

Lesson Plan

Session: - 2023-2024

Class:- BSc. - final year

Subject:- Real and complex Analysis

Semester:- VI

Name of Subject Teacher:- Ms. Neha Suhag

Month	Topic
January	Jacobians, Beta and Gamma functions, Double & Triple integrals, Dirichlet's integral, Change of order of integration in double integrals.
February	Fourier Series : Fourier expansion of piece-wise monotonic functions, Properties of Fourier coefficients, Dirichlet's conditions, Parseval's identity, Fourier series for even & odd functions, Half range series
March	Extended complex plane, Stereographic projection of complex numbers, continuity and differentiability of complex functions, Analytic functions, Cauchy-Riemann equations, Harmonic functions.
April	Mapping by elementary functions: Translation, Rotation, Magnification, Inversion, Conformal mappings, Mobius transformations, Fixed points, Cross ratio, Inverse Points and critical mappings.

Neha

LESSON PLAN

Geography Department

Session : 2023-24.

Class: M.A.

Subject: RESOURCE GEOGRAPHY

Semester: 1st Sem

Name of Teacher: Dr. Priyanka

Month	Topics
August	Nature, Scope and Significance of Geography of Resource; Definition and Concept of Resources, Classification of Resources.
September	Models of Natural Resource Processes: Zimmermann's Primitive and Advance Models of Natural Resource Process, Kirk's Decision Model, Brookfield System Model.
October	Use and Misuse of Resources: Soil Resource; Water Resource; Forest Resource and Mineral Resources; Future Prospects of Natural Resources.
November	Conservation and Management of Natural Resources : Meaning and Concept of Conservation of Natural Resources; Resource Conservation and Management Methods of Natural Resources- Soil Resource, Water Resource, and Forest Resource; Problems of Natural Resource Management in India.



LESSON PLAN

Geography Department

Season : 2023-24

Class: M.A.

Subject: TOPOGRAPHICAL MAPS AND INTERPRETATION

Semester: 1st Sem

Name of Teacher: Dr. Priyanka

Month	Topics
August	Introduction to Maps: Definition and Types of Maps,
September	Map scale, Conventional map symbols, Importance and uses of maps
October	Interpretation of Topographical maps: Topographical maps and their types, Basic information on Topographical sheets
November	Conventional Signs, Identification of Physical and Cultural details on Survey of India Toposheets

Priyanka

LESSON PLAN

Geography Department

Session : 2023-24

Class: M.A.

Subject: ENVIRONMENTAL GEOGRAPHY

Semester: 2nd Sem

Name of Teacher: Dr. Priyanka

Month	Topics
January	Environmental Geography: Nature and scope of environmental geography, fundamental concepts of environmental geography; Approaches and methods in Environmental Geography; Relationship with other branches of knowledge, Environment and Ecology: Meaning, structure and type of Environment, Ecology - meaning, scope and concepts. Sub-vision of ecology.
February	Ecosystem: Meaning and concepts of ecosystem, Classification and components of ecosystem, trophic structure, ecological pyramid, energy flow and biogeochemical cycle; Ecological regions of India.
March	Environmental pollution- meaning, types, sources, causes and impacts; Air, Water and Land pollutions; Environmental Degradation – Nature, process, types and causes of environmental degradation; Green house effect, Global warming, Ozone depletion and Desertification.
April	Environmental management- concept, methods and approaches. Management of soil, forest and mineral resources; Disaster Management; Conservation of natural resources; Emerging environmental problems and issues in India, Environmental policies, programmes, awareness and movements in India

Priyanka

LESSON PLAN

Geography Department

Session - 2023-24

Class: M.A.

Subject: REGIONAL DEVELOPMENT AND PLANNING

Semester: 2nd Sem

Name of Teacher: Dr. Priyanka

Month	Topics
January	Conceptual and theoretical framework: Concept of development, regional development; concept of region and regional planning; geography and regional planning; selection of indicators and measures of regional disparities.
February	Regional Growth Theories: Friedman's core-periphery theory; polarisation and trickle-down effect theory of Hirschman; circular and cumulative causation model of Myrdal; growth pole theory of Perroux.
March	Planning process: types of planning; regional planning and its rationale, principles and objectives. Regions for Planning: characteristics, hierarchy, need, and demarcation; Planning regions of India
April	Experiences of regional development and planning in India - multi level planning (state, district, block and panchayat level planning); Regional Policies in the Indian Five Year Plans; planning policies for regional development; regional backwardness: criteria, strategy and programmes for backward area development.

Priyanka

LESSON PLAN

Geography Department

Session - 2023-24

Class: M.A.

Subject: REMOTE SENSING AND GIS

Semester: 3rd Sem

Name of Teacher: Dr. Priyanka

Month	Topics
August	Photogrammetry: History and development, Definition and meaning; Aerial photographs-types, characteristics and Geometry, methods of determining scale; Ground coverage and overlapping; stereoscopes and stereoscopic vision; Photomosaics-types and uses; Elements of image interpretation.
September	Remote Sensing technique- Meaning, basic principles/concepts, Remote sensing system and relevance in Geography; Electromagnetic radiations (EMR); Electromagnetic spectrum; interaction of EMR with atmosphere and Earth's surface features; Spectral reflectance; Remote sensing data; Basic principles of thermal and microwave remote sensing.
October	Remote sensing platforms- types and characteristics; Satellite orbits- Near polar and Geostationary orbits; Sensors- types, specifications and resolutions; Various artificial satellites series; Remote sensing applications in land use/land cover, urban, water resources and environment studies; Remote sensing set up and programmes in India.
November	Geographic Information System (GIS) – Meaning and Basic concepts; Components of GIS; Functions in GIS - data input, storage, maintenance, manipulation, analysis and output; GIS data - spatial and non spatial data; Data formats - raster and vector; Data sources; Integration of Remote Sensing and GIS; Applications of GIS in Geographical studies.

Priyanka

LESSON PLAN

Geography Department

Session - 2023-24

Class: M.A.

Subject: WATER RESOURCE AND MANAGEMENT

Semester: 4th Sem

Name of Teacher: Dr. Priyanka

Month	Topics
January	Water as a focus of geographical interest; Hydrological cycle; factor affecting water resources- physical factors, climatic factors, geological factors
February	Groundwater and its occurrence - consolidated formation, semi-consolidated formation and unconsolidated formation.
March	Utilization of water resources; problems of groundwater utilization- groundwater quality, groundwater salinity, waterlogging and groundwater depletion.
April	Surface and groundwater pollution; water scarcity; water resource management- definition, functions and strategies.

Priyanka

LESSON PLAN

Geography Department

Session - 2023-24

Class: M.A.

Subject: SATELLITE IMAGES AND ITS INTERPRETATION

Semester: 4th Sem

Name of Teacher: Dr. Priyanka.

Month	Topics
January	Kinds of satellite images Study of a satellite image - annotation (IRS - IB, IRS- IC etc.)
February	Visual interpretation of a satellite image. Separating physical and cultural features on an image. Identification of objects on panchromatic, true colour and FCC images and their comparison.
March	Identification and mapping of landuse/land cover on satellite images. Study of thermal image and interpretation of various features. Study of Radar image and interpretation of various features
April	Acquisition of open source satellite data from USGS / GLOVIS. Acquisition of open source satellite data from BHUVAN (ISRO).

Priyanka

Lesson Plan

Department of Commerce

Class - B.Com (Honrs)
Subject - Money and Banking
Semester - 5th Sem
Session - 2023-24
Name of Teacher - Ms Rekha

Month	Topics
August	Definition of Money, function & importance Role of money in various economic system Units of Money Classification of money Circular flow of money
September & October	The Quantity Theory of Money Fisher & Cambridge and Keynesian theory Inflation - Types and Theories effects and consequences of inflation Control of Inflation Credit - definition, types, merits and demerits Credit and economic development. Functions of Commercial Bank & Central Banks Process of credit creation & its limitation
November	Control of money supply Reserve Bank of India Functions of RBI - Traditional and Development

Lesson Plan
Department of Commerce

Date

Class - B.Com (Hons)
Subject - Business Environment and International Business
Semester - 6th Sem
Session - 2023-24
Name of Teacher - Ms Rekha

Month	Topics
January	Business Environment - concept - components & Imp SWOT Analysis Agriculture in India - Problem & Importance Contribution in national Economy. Remedial Measures Economic Trends - income, saving & investment Industry, Trade and Balance of Payment
February & March	Problems of Growth: Unemployment, Poverty, Regional imbalance, Social Justice, Inflation Parallel Economy and industrial sickness Role of govt in Indian Economy Monetary and Fiscal Policy, Industrial policy Industrial licensing, Privatization and Devaluations International Business - An overview Major risk and challenges Concept of globalization, nature of MNCs.
April	Theories of international Trade - Absolute advantage theory, Comparative advantage theory, Product life cycle theory of trade WTO, IMF and World Bank in International Trade International market Branding decisions International promotion policy International pricing

Lesson Plan

Department of Commerce

Class - B.Com (Honsus)
Subject - Project Planning and Management
Semester - 6th Sem
Session - 2023-24
Name of Teacher - Ms Rekha

Month	Topics
January	Project Planning, Strategy and Capital allocation Generation and Screening of project ideas Analysis, Market and Demand analysis Technical Analysis Financial Estimates and projection Time value Money, Investment criteria
February & March	Project Cash flows The cost of Capital Stand Alone Risk analysis Special Divisions situations Social Cost Benefit analysis Multiple Projects and Constraints valuation of Real Options, judgemental, Behavioural, Strategic and Organisational consideration. Financing Projects
April	Implementation :- Project Management Network Techniques for Project Management Project Review Administrative Aspects

Lesson Plan
Department of Commerce

Class - B.Com (Pass)
Subject - Goods and Services Tax
Session - 2023-24
Semester - 6th Sem
Name of Teacher - Ms Rekha

Month	Topics
January	Silent features of GST, Benefits, Concepts Supply under GST - meaning & Definitions Tax on electronic operator Exemption from GST, Composition levy
February & March	Place of supply - within state/union territories Import and export, Time supply of goods & Services ITC availability in special circumstances Input service distributors. Registration, issue of invoices, tax invoices Bill of supply, Payment Taxes Returns, job work Revision of TDS and TCS
April	Custom duty - Definition Types, importance, document required for import and Export procedure Export Promotion Scheme

Lesson Plan
Department of Commerce

Class - B. Com (Honrs) / B. Com (Pass)

Subject - Income Tax - II

Semester - 6th Sem

Session - 2023-24

Name of Teacher - Ms Rekha

Month	Topics
January	Rebate and Relief of Tax Computation of Total Income computation of Tax liability of individuals Dilling and Filing of returns (ITR - I and II)
February & March	Assessment of Hindu undivided family Assessment of Firms & Association of persons Income Tax authorities and their powers. Procedure of Assessment Deductions of Tax at source Advance payment of Tax
April	Recovery of Tax Refund of Tax Appeals & Revision Penalties offences & prosecutions.

Lesson Plan
Department of Commerce

Class - B.Com (Honors)
Subject - Company Law - II
Session - 2023-24
Semester - 4th
Name of Teacher - Ms. Rekha

Month	Topics
January	Depository System - meaning & importance Share - Types of share, Allocation of share Transfer and Transmission of share Paperless Trading - Benefits and Procedures. Needs of Educating investor
February & March	Share capital - meaning and form of capital Alteration of share capital, Reduction of share capital Modes of acquiring membership Termination of membership Meeting of company - Essential of valid meeting Annual meeting, Extraordinary meeting Directors proxy, Voting, Notice, Agenda Directors - duties, Power, liabilities
April	winding up - meaning, petition for winding up voluntary winding up Powers and duties of company liquidator consequences of winding up.

Lesson Plan
Department of Commerce

Class - B. Com (Hons) Ist Sem
Subject - Business Law - I
Semester - Ist Sem
Session - 2023-24
Name of Teacher - Ms. Rekha

MONTH	TOPICS
AUGUST	The Indian Contract Act 1872:- Meaning, characteristics Essentials of Valid contract Offer and Acceptance, consideration Contractual capacity, Free Consent Legality of objects
SEPTEMBER & OCTOBER	Valid agreements Discharge of Contract Modes of discharge including and its remedies Contingent Contracts, Quasi Contracts Contract of Indemnity and Guarantee Contract of Bailment Contract of Agency Consumer of Protection Act
NOVEMBER	Sale of Good Act 1930 Contract of Sale, meaning and difference Conditions and warranties Transfer of ownership in goods Performance of contract of Sale Unpaid Seller - meaning and rights

Lesson Plan
Department of Commerce

Class - B.Com (Honors)
Subject - Principles of Marketing
Semester - 3rd Sem
Session - 2023-24
Name of Teacher - Ms Rekha

Month	Topics
August	Introduction to Marketing - meaning and nature Scope and Importance of marketing Marketing concepts - Traditional & Modern Consumer Behaviour - nature and scope Significance of consumer Behaviour
September & October	Market Segmentation - concepts & importance Basis for market Segmentation Product concept, planning and development Branding, trademark and Product life cycle. Pricing - meaning & importance Factors affecting product pricing Distribution channel - concept, role and types Factors affecting choice of a distribution channel
November	Promotion - meaning Sales promotion - meaning & methods Advertising - concept, nature Features of Effective Advertising Importance of Advertising Personal Selling.

Lesson Plan
Department of Commerce

Class - B.Com (Honrs) / B.Com (Pass)

Subject - Income Tax - I

Semester - 5th Sem

Session - 2023-24

Name of Teacher - Ms Rekha

Month	Topics
August	Income Tax - An Introduction and Important definitions. Agriculture Income Residential Status Incidence of Tax Liability Exempted Income
September & October	Income from Salary Income from Salary (Retirement Benefits) Income from House Property Profit and Gains from Business or Profession Depreciation Capital gains
November	Income from other sources Clubbing of incomes Aggregation of incomes Set-off and carry forward of losses Deduction to be made in computing total income

Lesson Plan

Commerce Department

Class: M.Com

Subject: Statistical Analysis For Business

Semester: 1st

Session: 2023-24

Name of Teacher: Dr. Sarita

Month	Topics
August	<ol style="list-style-type: none">1. Brief introduction of Correlation and Regression Analysis2. Partial & Multiple correlation & Regression (up to three variables)3. Probability Distribution: Binomial, Poisson and Normal Distribution4. Applications of probability distribution to Business
September & October	<ol style="list-style-type: none">1. Brief introduction of Hypotheses2. Statistical Inference3. Large sampling Tests4. Small sampling tests - Z Test & T-test.5. Brief introduction of Analysis of variance.6. Techniques of Analysis of variance - one way classification & two way classifications & F-test.7. Non parametric tests: sign-test, wilcoxon sign Rank test, wald-wolfowitz test, kruskal wallis-H test and The Mann whitney - U test, Median test and Run Test.
November	<ol style="list-style-type: none">1. Brief introduction of Association of Attributes2. Consistency of Data (two or three attributes)3. χ^2 Test: conditions for apply χ^2 test.4. Yate's correction5. Use & Additive property of χ^2 test6. Misuse & limitations of χ^2 test

Sarita

Lesson Plan

Commerce Department

Class: M.Com

Subject: Accounting standards and financial Reporting

Semester: 1st

Session: 2023-24

Name of Teacher: Dr. Sarita

Month	Topics
August	<ol style="list-style-type: none">1. Brief introduction of Accounting standards.2. Meaning, objectives, Benefits & scope of Accounting standards3. Process of standards setting in India4. Accounting standards issued by ICAI5. Accounting standards in India, The Companies Rules, 2015
September & October	<ol style="list-style-type: none">1. International Financial Reporting standards: Meaning, History, objectives & scope.2. Convergence of Indian Accounting standards with IFRS: current status and challenges.3. FASB: History and its pronouncements4. Harmonization in Accounting & Reporting.5. Financial Disclosures and Reporting: objectives and concepts6. Development of financial Reporting objectives: True blood Report, corporate Report & stamp Report.7. IASB's and FASB's Conceptual Framework.8. segment and Interim Financial Reporting
November	<ol style="list-style-type: none">1. Financial Reporting by Mutual Funds2. Non-banking financial companies.3. Merchant bankers4. Contemporary Issues in Accounting: HR Accounting, corporate social Reporting, Forensic Accounting and Reporting5. Environmental Reporting.

Sarita

Lesson PlanCommerce Department

Class: M.Com

Subject: Management Accounting

Semester: 2nd

Session: 2023-24

Name of Teacher: Dr. Sarita

Months	Topics
January	<ol style="list-style-type: none">1) An Introduction of Management Accounting2) Financial Accounting vs. Cost Accounting vs. Management Accounting.3) Techniques, principles, scope, utility & limitations4) Essentials for success5) Management Accountant: Position, Role & Responsibility
February	<ol style="list-style-type: none">1) Budgetary control: Management control process, Benefits & limitations.2) Installation of the system3) Preparation of different types of budgets4) Lease Financing - Lease or buy decision5) Evaluation of lease methods
March	<ol style="list-style-type: none">1) Contemporary Issues in management2) Accounting value chain Analysis3) Activity Based Costing4) Quality costing, Target & Life Cycle costing
April	<ol style="list-style-type: none">1) Decisions Involving Alternate choices2) Evaluation Process3) Specific Management Decisions - Make or buy, Expand or buy, Expand or contract, Retain or replace4) Exploring New Markets5) optimum product Mix, Adding & Dropping a product.6) Responsibility Accounting7) Reporting to Management

Sarita

Lesson PlanCommerce Department

Class: M.com

Subject: Fundamental of Management

Semester: 2nd

Session: 2023-24

Name of Teacher: Dr. Sarita

Month	Topics
January	<ol style="list-style-type: none">1. Brief Introduction of Management2. Evolution of management thoughts - Traditional, Behavioural system and Contingency viewpoints.
February	<ol style="list-style-type: none">1. Planning, Planning types & models2. Introduction of organizing - work specialization, chain of command delegation3. Decentralization4. span of management & basis of departmentation
March	<ol style="list-style-type: none">1. Introduction of Leadership2. Recognition of human factor3. Leadership styles, characteristics of effective leaders4. Leadership Development.5. Motivation Models.
April	<ol style="list-style-type: none">1. Controlling in management - Concepts and process2. Control Techniques, effective control system3. Evaluating corporate social performance4. Managing company ethical and social Responsibility.

Sarita

Lesson Plan

Commerce Department

Class : M.COM

Subject : Management of Financial Services

Semester : 3rd

Session : 2023-24

Name of Teacher : Dr. Saxena

Month	TOPICS
August	<ol style="list-style-type: none">1. Evolution of Financial services : Indian Financial system, Formal Financial system and Informal financial system2. Financial Institutions Brief introduction
September	<ol style="list-style-type: none">1. Banking companies & Non Banking Companies2. Securitisation : Concepts, players and process, structure, instruments & developments3. Credit rating : concepts, meaning, scope & importance4. Types of credit rating
October	<ol style="list-style-type: none">1. Credit Rating Agencies in India - CRISIL, CARE, ICRA and Fitch India.2. Process and Methodology adopted by Indian credit Rating Agencies.3. An overview of the Depository system, Meaning, scope, importance & features.4. Eligibility criteria for a Depository, Rights & obligations of Depositors5. NSDL system, procedure & practices, core services & special services
November	<ol style="list-style-type: none">1. Financial Services: leasing, Merchant Banking, Hire purchase & installment system.2. Consumer finance, credit cards & Mutual funds.3. Commercial papers, Forfeiting, counter trade.4. Financial Journalism.

Signature

Lesson Plancommerce Department

Class: M.com

Subject: Portfolio Management

Semester: 3rd

Session: 2023-24

Name of Teacher: Dr. Sarita

Month	TOPICS
August	<ol style="list-style-type: none">1. Portfolio: Meaning and Benefits2. Rationale of Diversification in investments3. Portfolio Risk and Return: Meaning and Measurement; Strategic Asset Allocation4. Portfolio selection: Markowitz's Model5. Risk less lending and Borrowing.
September & October	<ol style="list-style-type: none">1. Sharpe's single Index Model2. Capital Asset Pricing Model3. CAPM (Assumptions and Empirical evidence)4. CAPM Limitations.5. Behavioural Finance: Heuristic-Driven Biases, Emotional and social Influences6. Market inefficiency
November	<ol style="list-style-type: none">7. Strategies of Great Masters: Benjamin Graham, Warren Buffett, John Templeton8. Strategies of John Templeton, Peter Lynch, David Dreman & Indian money Monarchs.9. Basic Guidelines for investment Decisions.4. Strategies of George Soros

Sarita

Lesson Plan

Commerce Department

Class : M. Com

Subject: Human Resource Management

Semester: 4th

Session : 2023-24

Name of Teacher: Dr. Sarita

Months	TOPICS
January	<ol style="list-style-type: none">1) An introduction in Human Resource Management • objectives and importance of HRM2) Functions of HRM: Managerial & operative3) Qualification and Qualities of HR Managers4) Evolution and Growth of HRM in India5) Recent Techniques in HRM
February	<ol style="list-style-type: none">1) workers participation in Management • concepts, needs & objectives2) pre-requisites of effective participation3) evaluation of the scheme of W.P.M.4) Joint Management Councils in India5) Causes of Failure of JMC in India
March	<ol style="list-style-type: none">1) Trade unions concept :- Need, Function and Objectives2) Growth & development of trade union in India3) Difficulties & principal drawbacks of Trade union Movement in India.4) Concept of collective Bargaining5) Essentials for the success of Collective Bargaining in India
April	<ol style="list-style-type: none">1) Concept of employee morale2) Determinants and measurement of Morale3) concept & significance of productivity4) Factors influencing industrial productivity5) Measures to improve productivity.6) Relationship between morale & productivity

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Lesson PlanCommerce Department

Class: M.Com

Subject: International Marketing

Semester: 4th

Session: 2023-24

Name of Teacher: Dr. Srita

Months	Topics
January	1) Introduction to International Marketing: Nature, significance, complexities in International Marketing 2) Transition from Domestic to International Marketing 3) EPR4 Framework, International market entry strategies 4) International marketing environment: Internal and external environment. 5) Impact of environment on International Marketing Decisions.
February	1) Foreign Market selection: Global Market segmentation, selection of Foreign Markets; International Positioning, International marketing planning, organising & control 2) Emerging Issues & developments in International Marketing 3) Information Technology & International Marketing 4) Impact of Globalisation.
March	1) Product Decisions: Product planning for Global markets: standardization vs. product adaptation 2) New Product Development; Management of International brands 3) Provision of sales related services 4) Pricing Decisions: environmental influences on Pricing Decisions. 5) International pricing policies & strategies.
April	1) Promotion Decisions: Complexities and issues 2) International Advertising, personal selling, sales promotion and Public Relations. 3) Distribution channels and logistics: 4) selection of foreign Distributors Agents and managing relations with them. 5) International logistics decisions

Srita

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of MATHEMATICS

Lesson Plan

Session: - 2023-2024

Class:- B.A. III

Subject:- Groups and Rings

Semester:- V

Name of Subject Teacher:- DR. SANITA MALIK

Month	Topic
August	Groups, Subgroups, Cyclic groups, Cosets, Coset decomposition, Lagrange's theorem, Normal Groups and Quotient Groups. Revision, Examples, Exercises, Problems, Tests, Discussions.
September	Homomorphisms, Isomorphisms, Automorphisms and Inner Automorphisms of groups, Cyclic groups permutation groups. Cayley's theorem. Revision, Examples, Exercises, Tests, Discussions.
October	Rings, Subrings, Integral Domain, fields, Homomorphisms, Ideals, Quotient Rings, Field of quotients of an Integral Domain. Revision, Examples, Exercises, Problems, Tests.
November	Euclidean Rings, Polynomial Rings, Eisenstein's Criteria, Unique Factorization Domain, $R[x_1, x_2, \dots, x_n]$. Examples, Exercises, Problems, Tests, Discussion.

Sanita Malik
08/01/2025

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of MATHEMATICS

Lesson Plan

Session: - 2023-24

Class:- B.A. II

Subject:- Advanced Calculus

Semester:- III

Name of Subject Teacher:- DR. SAVITA MALIK

Month	Topic
August	Continuous functions, Uniform Continuity, Mean Value theorems, Rolle's theorem, Lagrange's Mean Value theorem, Taylor's theorem, Darboux theorem. Revision, Questions, Problems, Tests.
September	Real valued functions of two variables, partial differentiation, Total differentials, Homogeneous functions, Euler's theorem, Taylor's theorem for two variables. Revision, Examples, Exercises, Tests, Discussions
October	Differentiability of real valued functions of two variables. Schwarz and Young's theorem. Maxima, Minima, Saddle points, Lagrange's method of multipliers. Revision, Questions, Tests, Discussions.
November	Tangents, Principal Normals, Binormals, Serret-Frenet formulae, Locus of the centre of curvature, Spherical curvature, Involute, Evolute, Bertrand Curves. Revision, Examples, Exercises, Tests, Problems, Discussions.

Savita
28/01/2024

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of MATHEMATICS

Lesson Plan

Session: - 2023-24.

Class:- B.A. II

Subject:- Partial Differential Equations.

Semester:- III

Name of Subject Teacher:- DR. SANITA MALIK

Month	Topic
August	Partial Differential Equations (P.D.E.) Linear and Non-linear P.D.E. Lagrange's Linear Equations Charpit's Method, Jacob's Method. Revision, Examples, Exercises, Problems, Tests.
September	L.P.D.E. of second and higher orders Linear and Non-linear Homogeneous Equations. Partial Differential Equations with constant coefficients and variable coefficients. Revision, Exercises, Problems, Tests, Discussions.
October	Classification of (L.P.D.E.) of second order. Hyperbolic, Parabolic and Elliptic Equations, Canonical or Normal form, Monge's Method. Revision, Examples, Exercises, Tests, Discussions.
November	Cauchy's problem. Method of Separation of variables. Laplace Equation, Wave Equation (one + two dimensional) Heat Equation (one and two dimensional) Revision, Examples, Exercises, Tests, Discussions.

Sanita Malik
08/09/2025

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of MATHEMATICS

Lesson Plan

Session: - 2023-2024

Class:- B.A.I

Subject:- Algebra

Semester:- I

Name of Subject Teacher:- DR. SAVITA MALIK

Month	Topic
August	Matrices, Types of matrices, Operations on matrices, Rank of matrix, Inverse of a Matrix, Eigen Values, Eigen vectors, Minimal Polynomial of a Matrix, Cayley Hamilton theorem, Examples, Exercises, Problems, Tests, Discussions.
September	Applications of Matrices to system of linear equations. Theorems on consistency of a system of linear equations, Unitary and Orthogonal Matrices, Bilinear and Quadratic forms. Revision, Example, Exercise, Tests.
October	Relations between Roots & Co-efficients of an equation. Selection of equations having conditions on roots, Common Roots and Multiple Roots. Transformation of Equations. Examples, Exercises, Problems, Tests, Discussions.
November	Nature of roots of an equation, Descartes Rule of signs, Cardan's Method for Cubic equation, Descartes's Method for Biquadratic equation. Examples, Exercises, Problems, Tests, Discussions.

DR. SAVITA MALIK
08/09/2024

Lesson Plan
Paper - Nuclear Physics
Sem. 6th

2023-24

Name of Teacher - Dr. Suman Kumari

January

Nuclear Mass and Binding Energy, Systematics Nuclear Binding Energy, Nuclear Stability, Nuclear Size, Spin, Parity, Statistics, Magnetic dipole Moment, Quadrupole Moment (shape concept). Determination of mass by Bain-Bridge, Bain Bridge & Jordan Mass Spectrographs, Determination of charge by Mosley law. Determination of size of nuclei by Rutherford Back Scattering.

February

Interaction of heavy charged particles (Alpha particles), Alpha disintegration and its theory. Energy loss of heavy charged particle (Idea of Bethe formula). Energetics of α -decay, Range & straggling of α -particles. Geiger-Nuttall law. Introduction of light charged particle (β). Origin of β -spectrum. Neutrino hypothesis. Types of β -decay & its energies.

March

Energy loss of Beta particles (Ionization). Range of electrons, Absorption of β -particles. Interaction of Gamma ray (γ). Nature of γ -ray. Nature of γ -rays, Energetics of γ -rays. Passage of γ -radiation through matter (Photoelectric, Compton & Pair-production). e^-e^+ annihilation. Absorption of γ -rays (Mass attenuation co-efficient) & its application.

April

Nuclear α 's, Elastic & Inelastic Scattering Nuclear disintegration. Radiative capture, Direct α 's, Conservation laws, Q-value & α 's threshold. Nuclear reactions. Nuclear fission & fusion reactions. Linear accelerator, Cyclotron & Betatron accelerators. Rontgen chamber, proportional counter, G.M Counter.

Lesson Plan 2023-24

Paper - Atomic, Molecular & Laser Physics
Sem. - 6th

Name of Teacher - Dr. Suman Kumari

January	Need of Spectroscopy, Atomic Models, Vector Atom Model, Quantum numbers associated with vector atom model. Penetrating and Non-penetrating orbits, Spectral lines in different series of alkali spectra, Spin-orbit interaction and doublet term separation LS (Russel-Saunders) Coupling
February	J-J coupling, Interaction energy for LS and J-J coupling. Zeeman Effect (Normal and Anomalous) Zeeman pattern of D ₁ and D ₂ lines of Na-atom.
March	Paschen Back Effect of a single valence electron system. Weak field Stark effect of hydrogen atom. Discrete set of electronic energies of molecules, Quantisation of vibrational and rotational energies, Raman effect, Stoke and Anti-stoke lines. Laser and its introduction.
April	Main features of a laser: Directionality, high intensity, High degree of coherence, spatial and temporal coherence, Einstein's co-efficient and possibility of amplification, Momentum transfer, Life time a level, Kinetics of optical absorption, Threshold condition for laser emission, Laser pumping, He-Ne laser and RUBY laser (Principle, construction and their working) Applications of laser in the field of medicine and industry.
	Isotope effect, London ex ⁿ , Conductor ... oxide super conductors.

Lesson Plan

2023-24

+ lattice,

Paper - Quantum Mechanics

Sem. - 5th

Name of Teacher - Dr. Suman Kumari

Lesson Plan

2023-24

Paper - Solid state Physics
Sem. - 5th

Name of Teacher - Dr. Suman Kumari

July	Matter and Its types, state of Matter, solids and its types
August	Basics of Solid (Glassy form) formation, T-V diagram, Crystalline and Glassy forms, Liquid crystals, crystal structure, Periodicity, Lattice & Basis, Crystal translational vectors and axes. Unit cell & Primitive Cell, Wigner-Seitz primitive cell, Symmetry operations for two-dimensional crystal, Bravais lattice in two and three dimensions.
September	Crystal Planes and Miller Indices, Interplanar Spacing, Crystal structures of ZnS, NaCl and diamond, X-ray Diffraction Bragg's law and X-ray diffraction methods: Lane Method, Rotating Crystal Method, Powder Method, K-space.
October	Reciprocal lattice and Its physical significance, Reciprocal lattice Vectors, Reciprocal lattice to a simple cubic lattice, BCC and FCC
November	Specific heat of solids. classical theory & Dulong-Petit's law, Einstein's theory of specific heat, Debye Model of specific heat of solids.

Lesson Plan
Paper - Nuclear Physics
Sem. 6th

2023-24

Name of Teacher - Dr. Suman Kumari

January

Nuclear Mass and Binding Energy, Systematics Nuclear Binding Energy, Nuclear Stability, Nuclear Size, Spin, Parity, Statistics, Magnetic dipole Moment, Quadrupole Moment (shape concept). Determination of mass by Bain-Bridge, Bain Bridge & Jordan Mass Spectrographs, Determination of charge by Mosley law. Determination of size of nuclei by Rutherford Back Scattering.

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Interaction of heavy charged particles (Alpha particles), Alpha disintegration and its theory. Energy loss of heavy charged particle (Idea of Bethe formula). Energetics of α -decay, Range & straggling of α -particles. Geiger-Nuttall law. Introduction of light charged particle (β). Origin of β -spectrum. Neutrino hypothesis. Types of β -decay & its energies.

March

Energy loss of Beta particles (Ionization). Range of electrons, Absorption of β -particles. Interaction of Gamma ray (γ). Nature of γ -ray. Nature of γ -rays, Energetics of γ -rays. Passage of γ -radiation through matter (Photoelectric, Compton & Pair-production). e^-e^+ annihilation. Absorption of γ -rays (Mass attenuation co-efficient) & its application.

April

Nuclear α 's, Elastic & Inelastic Scattering Nuclear disintegration. Radiative capture, Direct α 's, Conservation laws, Q -value & α 's threshold. Nuclear reactions. Nuclear fission & fusion reactions. Linear accelerator, Cyclotron & Betatron accelerators. Rontgen chamber, proportional counter, G.M Counter.

Lesson Plan 2023-24

Paper - Atomic, Molecular & Laser Physics
Sem. - 6th

Name of Teacher - Dr. Suman Kumari

January	Need of Spectroscopy, Atomic Models, Vector Atom Model, Quantum numbers associated with vector atom model. Penetrating and Non-penetrating orbits, Spectral lines in different series of alkali spectra, Spin-orbit interaction and doublet term separation LS (Russel-Saunders) Coupling
February	j-j coupling, Interaction energy for LS and j-j coupling. Zeeman Effect (Normal and Anomalous) Zeeman pattern of D ₁ and D ₂ lines of Na-atom.
March	Paschen Back Effect of a single valence electron system. Weak field Stark effect of hydrogen atom. Discrete set of electronic energies of molecules, Quantisation of vibrational and rotational energies, Stokes and Anti-stokes lines. Laser and its introduction.
April	Main features of a laser: Directionality, high intensity, High degree of coherence, spatial and temporal coherence, Einstein's co-efficient and possibility of amplification, Momentum transfer, Life time a level, Kinetics of optical absorption, Threshold condition for laser emission, Laser pumping, He-Ne laser and RUBY laser (Principle, construction and their working) Applications of laser in the field of medicine and industry.
	Isotope effect, London ex., Conductor ... oxide super conductors.

Lesson Plan

2023-24

+ lattice,

Paper - Quantum Mechanics

Sem. - 5th

Name of Teacher - Dr. Suman Kumari

Lesson Plan

2023-24

Paper - Solid state Physics
Sem. - 5th

Name of Teacher - Dr. Suman Kumari

July	Matter and Its types, state of Matter, solids and its types
August	Basis of Solid (Glassy form) formation, T-V diagram, Crystalline and Glassy forms, Liquid crystals, crystal structure, Periodicity, Lattice & Basis, Crystal translational vectors and axes. Unit cell & Primitive cell, Wigner-Seitz primitive cell, Symmetry operations for two-dimensional crystal, Bravais lattice in two and three dimensions.
September	Crystal Planes and Miller Indices, Interplanar Spacing, Crystal structures of ZnS, NaCl and diamond, X-ray Diffraction Bragg's law and X-ray diffraction methods: Lane Method, Rotating Crystal Method, Powder Method, K-space.
October	Reciprocal lattice and Its physical significance, Reciprocal lattice vectors, Reciprocal lattice to a simple cubic lattice, BCC and FCC
November	Specific heat of solids. classical theory & Dulong-Petit's law, Einstein's theory of specific heat, Debye Model of specific heat of solids.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com Previous

Subject:- Managerial Economics

Semester:- Ist

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
August	<ol style="list-style-type: none">1. Nature & Scope of Managerial Economics2. Role of Managerial Economics in Decision Making3. Consumer Behaviour & Demand Analysis.4. Approaches of Consumer Behaviour5. Demand Estimation & Forecasting
September	<ol style="list-style-type: none">1. Production function (short run & long run concept)2. Isoquants3. Theory of Cost in short and long runs4. Briefly explain of Economies5. Price & Non Price Competition
October	<ol style="list-style-type: none">1. Meaning & scope of Macro Economics2. Flow of income, multiplier, accelerator, efficiency of Capital3. About Economic growth4. Inflation with types & strategies to counter inflation.
November	<ol style="list-style-type: none">1. Define Budget2. Balance of Payments3. Briefly explain about balance of payments4. Foreign exchange rate management & its role5. Business Cycles.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com (Final)

Subject:- Fundamentals of Marketing

Semester:- 3rd

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
August	<ol style="list-style-type: none">1. Briefly explain Marketing2. Building & delivering customer value & satisfaction3. Retaining customers4. Marketing environment
September	<ol style="list-style-type: none">1. Market Segmentation2. Positioning & targeting of Marketing3. Tools of product differentiation4. Marketing strategies in the different stage of the Product life Cycle.
October	<ol style="list-style-type: none">1. About product development2. Product Mix & Product line decisions3. Branding decisions; pricing strategies4. Managing market channels; wholesaling & retailing
November	<ol style="list-style-type: none">1. Define Advertising & sales promotion2. Public relations, personal selling3. evaluation & control of market efforts4. Web marketing, green marketing

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com (Final)

Subject:- Advanced Cost Accounting

Semester:- 3rd

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
August	<ol style="list-style-type: none">1. About Inventory system Methods2. ABC Analysis3. VED Analysis / JIT Analysis4. MRP-I & Zero Inventory System
September	<ol style="list-style-type: none">1. Manufacturing resource Planning (MRP-II)2. ERP Enterprise resource Planning.3. Lean Accounting, Back flush Costing & types4. Difference between various costing methods
October	<ol style="list-style-type: none">1. Process Costing with practical Questions2. By Product & Joint Product3. Practical Question of Process Costing.
November	<ol style="list-style-type: none">1. Briefly Define Uniform Costing2. Describe Inter firm Comparison.3. Cost records4. Integral System & Non-integral System.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com (Final)

Subject:- Corporate Tax

Semester:- 3rd.

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
August	<ol style="list-style-type: none">1. Meaning of Company, types of Companies2. Residential Status & incidence of tax on Companies.3. Computation of Income of Company under various heads.
September	<ol style="list-style-type: none">1. Assessment of Insurance Companies2. Deductions from gross total income as applicable to companies.3. Computation of tax for various types of Companies
October	<ol style="list-style-type: none">1. Assessment of Charitable / Educational Trust / Religious Trust.2. Assessment of Political Parties3. Assessment of Non-Residents
November	<ol style="list-style-type: none">1. Advance ruling for non-residents2. Assessment of Co-operative Societies3. Assessment of discontinued business4. Double taxation relief.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com Previous

Subject:- Organisational Behaviour

Semester:- IInd

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
January	<ol style="list-style-type: none">1. Concept & Significance of Organisational Behaviour.2. Model of O.B.3. Ethics & ethical behaviour in organisations.4. Learning theories & process.
February	<ol style="list-style-type: none">1. Meaning & Definition, functions of Attitude2. Personality Define.3. Personality Model.4. Define Perception.
March	<ol style="list-style-type: none">1. Group Dynamics - definition & importance, types of groups, group formation, group dev.2. Group performance factors, group norms, group status, group size,3. Social loafing
April	<ol style="list-style-type: none">1. Team in Briefly2. About the Organisational Conflict3. Traditional Approaches to Conflict4. Modern Approaches to Conflict / Resolution.5. Organisational Development.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com Previous

Subject:- Investment Management

Semester:- IInd

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
January	<ol style="list-style-type: none">1. Briefly Explain about investment2. Tax & Tax transactions Cost of Investment3. Risk-Return4. Time value of Money5. Sources of Financial Information
February	<ol style="list-style-type: none">1. Introduction of Capital Market2. Primary & Secondary Market3. Types of Issues in Securities in India4. Describe Stock-Exchanges5. Listing of Securities, Trading & Settlement
March	<ol style="list-style-type: none">1. SEBI - Meaning, functions, objectives, role2. Intermediaries in the Capital Markets3. Security Valuation - Debt, Bonds, Pref. Shares, Equity shares, options & futures.
April	<ol style="list-style-type: none">1. Securities Analysis - Fundamental Analysis2. Define Technical Analysis3. Efficient Market theory like Random Walk theory, various forms of EMH.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-24

Class:- M.Com (Final)

Subject:- Corporate Tax Planning and Management

Semester:- 4th

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
January	<ol style="list-style-type: none">1. Meaning of Tax, Tax evasion, Tax avoidance2. Tax Planning & Tax Management in detail3. Tax Planning for new business4. Different forms of organization of new business.
February	<ol style="list-style-type: none">1. Tax provisions related to free trade zones, infrastructure sector & backward areas.2. Meaning & types of amalgamation.3. Tax planning with reference to amalgamation of Companies.
March	<ol style="list-style-type: none">1. Tax Planning related to Capital structure decisions.2. Briefly define Dividend Policy3. Inter Corporate Dividends, Bonus shares & Bonus Debentures4. Tax Planning in respect of own or lease.5. Tax planning regarding to managerial remuneration.
April	<ol style="list-style-type: none">1. Tax Planning in respect of sale of assets used for scientific research.2. Make or buy decisions, Repair Replace, Renewal or renovation of an assets, shut down or continue decisions.3. Tax planning in respect of selling in domestic or foreign exchange & tax incentives to Exporters.

M.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of COMMERCE

Lesson Plan

Session: - 2023-2024

Class:- M.Com Final

Subject:- Business Research Methods

Semester:- 4th

Name of Subject Teacher:- DR. SUPRABHA

Month	Topic
January	<ol style="list-style-type: none">1. Brief Introduction of Research2. Explain various types of Research with features, process & uses.3. Define Research Problem in brief with some Hypotheses4. Research Proposal, formulation of Research Hypotheses
February	<ol style="list-style-type: none">1. Research Design with nature & process2. Classification of Research Designs.3. Experimental Designs4. Methods & Factors affecting of Internal & External validity of Experiment5. Some examples of Research Design with Hypothesis.
March	<ol style="list-style-type: none">1. Meaning of Data, Different types of Data.2. Research application of different types of Data.3. Qualitative Methods of Data Collection.4. Data Collection types or Methods in detail5. Universe, Sample vs Census.
April	<ol style="list-style-type: none">1. Sample frame & Sampling design & techniques2. Sampling & Non-Sampling Errors3. Research Report with meaning, functions & types.4. Steps of Planning Report writing & Report Structure.5. Different types of Presentation in Research.

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Chemistry

Lesson Plan

Session: - 2023-24

Class:- B.Sc - Ist year (NM & Med)

Subject:- Organic chemistry and Physical chemistry

Semester:- Ist Sem.

Name of Subject Teacher:- Ms. SUSHMA

Month	Topic
August	<u>Organic</u> - stereochemistry - I (Isomerism.) , optical Isomerism element of sym. chirality enantiomers, stereogenic centre, diastereomer, meso compounds, resolution, racemisation. <u>Physical</u> - Maxwell distribution, RMS, average and most probable velocity. collision diameter, no. frequency.
September	<u>Organic</u> stereochemistry - II . Configuration. R and S Geometrical isomerism E and Z system and nomenclature. Conformational isomerism - nbutane, ethane cyclohexane Newmann, sawhorse. Configuration and Conformation. <u>Physical</u> - Van der waal eqn of state, Boyle's Temp. real gas eqn.
October	<u>Organic</u> - <u>structure and Bonding</u> - Localised and delocalised bond, van der waal interaction, resonance, hyperconjugation Inductive and electronic effect. <u>Mechanism of organic Rxn</u> - Curved arrow, electron movement arrow representation, bond breaking. Type of reagents <u>Physical</u> - Critical temp, pressure, volume and their determination
November	<u>Organic</u> - organic rxn and their consideration Reaction Intermediates. <u>Alkane and cycloalkane</u> - IUPAC, classification, method of form, physical properties Bayer strain theory and strainless rings. <u>Physical</u> - PV Isotherm, Continuity of state, Relation Critical Compressibility factor, Laws, liquification.

Sushma

pM.K.J.K. MAHAVIDYALAYA, ROHTAK

Department of Chemistry

Lesson Plan

Session: - 2023-24

Class:- B.Sc Ist year (NM & Med.)

Subject:- Organic chemistry and physical chemistry.

Semester:- 2nd Sem.

Name of Subject Teacher:- Ms. Sushma.

Month	Topic
Jan.	<u>Organic</u> - Alkene- Nomenclature, dehydration and dehydrohalogenation of alkyl halide. Saytzeff and Hoffmann elimination, physical properties, chemical reactions. Markownikoff's rule, hydroboration, oxymercuration. <u>Physical Chemical kinetics</u> - Rate and factors affecting order of reaction
Feb	<u>Organic</u> ozonolysis, hydration, oxidation <u>Alkene and Aromaticity</u> - Nomenclature, Huckel rule annulene aromatic, anti and non aromatic comp. Aromatic electrophilic substitution with mechanism, energy profile diagram, activating and deactivating. <u>Physical</u> expression for zero, first, second and third order
March	<u>Organic</u> <u>Diene and alkyne</u> - Nomenclature, classification structures, chemical rxn. Diels Alder rxn. Nomenclature Bonding, method of form, chemical rxn of alkyne Hydroboration. <u>Physical</u> : - Half life time period and rate determination
April.	<u>Organic</u> <u>Alkyl and Aryl Halide</u> :- Nomenclature method of formation and chemical Rxn, SN ¹ and SN ² Relative reactivity. <u>Physical</u> Arrhenius eqn, Theories of reaction rate Transition state theory of Bimolecular rxn.

Sushma

Lesson Plan English Department

Class - BA

Subject - English

Semester - I

Session - 2023-24

Name of Teacher - Ms Sofiya

Month

Topic

August

Ch.1 - 'Speech Sounds' with exercise

Ch.2 - 'Choosing Our Universe' with exercise

- Extended Grammar - Noun, Types of Noun, Subject-Verb Agreement, Tenses, Pronouns, Types of Pronoun

September

Ch.3 - 'Are Dams The Temples of Modern India'

Ch.4 - 'The Generation Gap' with exercise

- Extended Grammar - Adjectives, Types of Adjectives, ^{with} Exercise

Ch.5 - 'Language and National Identity' with exercise

October

Ch.6 - 'Wounded Plants' with exercise

Ch.7 - 'Playing the English Gentleman' with exercise

Ch.8 - 'Great Books Born Out of Great Minds' with exercise

- Extended Grammar - Verbs, Adverbs, Exposition with exercise

October

- Reading and Critical analysis of My Last Duchess by Robert Browning
- Reading and Critical analysis of When You are Old by W.B. Yeats
- Reading and Critical analysis of Where the Mind is Without Fear by Rabindranath Tagore
- Reading and Critical analysis of The Bangle Sellers by Sarojini Naidu

November

- Reading and critical analysis of Another woman by Intiaz Durrani
- Grammar - Prepositions I, Introduction to Non-finites: Gerund, its rules and exercise
- Introduction and Illustration of Non-finites: Infinitive, its rules and exercise
- Revision

Sofiya

Lesson Plan English Department

Class - BA

Subject - English

Semester - IV

Session - 2023-24

Name of Teacher - Ms Sofiya

Month

Topic

January

Spoken English with complete exercise

February

Ch.1 - The Envoy with Q/A

Ch.2 - The Swan Song with Q/A
- Dialogue Writing

March

Ch.3 - The Monkey's Paw with Q/A

- E-mail Writing
- Comprehension Exercises
- Resume Writing

April

Ch.4 - Before Breakfast with Q/A

- Ch.5 - The Sleepwalkers with Q/A
- Translation
 - Revision

Sofiya

A Lesson Plan English Department

Class - BA

Subject - English

Semester - III

Session - 2023-24

Name of Teacher - Ms Sofiya

Month

Topic

August

- Introduction to poetry and explanation of different poetic forms and devices
- Reading and analysis of Sonnet XVIII by William Shakespeare
- Grammar - Prefixes and Suffixes
- Reading and critical analysis of know Men Thyself by Alexander Pope

September

- Reading and critical analysis of Elegy Written in a Country Churchyard
- Reading and critical analysis of The World is Too Much with Us by William Wordsworth and Ode on a Grecian Urn by John Keats
- Grammar - Illustration of Verb Patterns and Introduction to Clauses and its different types and exercise of Clauses

April

- Ch. 8 - The Blind Dog with Q/A
- Punctuation with exercise and Test
 - Revision

Safiya_

Lesson Plan English Department

Class - BA

Subject - English

Semester - II

Session - 2023-24

Name of Teacher - Dr Ms Sofiya

Month

Topics

January

- Ch.1 - Pigeons at Daybreak with Q/A
- Ch.2 - With the Photographer with Q/A
- Sentences & their types + Auxiliaries with exercise
- Ch.3 - The Journey with Q/A
- Modals with exercise

February

- Ch.4 - The Refugee with Q/A
- Subject-Verb Agreement with exercise
- Ch.5 - Bellows for the Bullock with Q/A

March

- Voice & Phrasal verbs with exercise
- Ch.6 - Panchlight with Q/A
- Ch.7 - The Child with Q/A
- Direct and Indirect Speech & Tag Questions with exercise

November

ch.9 - 'The Responsibility of Young Men' with
exercise

ch.10 - 'Bharat Mata' with exercise

Extended Grammar - Conjunctions with
exercise

- Revision

Sofiya

Lesson Plan

Class: B.COM (Hons) II^{Year}

Subject: Financial Market and Institutions.

Semester: 4th Sem

Session: 2023-2024

Name of Teacher: Ms. Chandan Prabha

Months	Topics
January	Financial Institutions : Detail Analysis Indian Financial Institutions EXIM Bank Capital Market, Money Market NABARD - Detailed view
February	Money market Institutions Instruments Intermediaries Indian Money Market
March	Capital Market Institutions Instruments Intermediaries Merchant Banking
April	Venture capital Hire Purchase system Leasing Leasing Industry in India.

Lesson Plan

Class : B COM (Hons.)-III

Subject: Investment Analysis

Semester: 5th Sem

Session : 2023-2024

Name of Teacher: Ms. Chandraprabha

Month	Topics
August	Investment : Meaning, nature, process Investment avenues, concept and measurement of Investment risk & return. Investment opportunities: Speculation, Gambling.
September	Efficient Market theory or Hypothesis. Technical Analysis: Dow Theory, Charting Techniques, Volume indicators.
October	Fundamental Analysis: Company analysis, Industry Analysis and Economy Analysis Technical Vs. Fundamental Analysis.
November	Trading mechanism in Bombay Stock Exchange Derivatives: Meaning, uses, Types, Derivatives in Indian Capital market Option contracts: Meaning uses, Types.

Lesson plan

Class: B.COM (Hons) III~~II~~ year

Subject: Business Ethics

Semester: 4th Sem

Session: 2023-2024

Name of Teacher: Ms. Chander Prabha

Months	Topics
January	Politics: Liberty, Equality, Justice Rights and Recognition. Idea of a good society Concept of Business Ethics
February	Domain of Politics and Ethics Democracy and welfare state Market and Globalisation Approaches to Moral Reasoning: Consequentialism, Deontology, Teleological reasoning
March	Politics and Ethics in Business Corporate Code of Ethics a) Environment b) Accountability c) Responsibility d) Leadership e) Diversity
April	Corruption, Corporate Scandals, whistle blowing, insider trading, discrimination; Gender Sensitization Sex Ratio as per Census of India 2011. Role of Government in Gender Sensitization

Lesson Plan

Class : B.COM (Hons) - II

Subject : Cost Accounting

Semester : 3rd Sem

Session : 2023-2024

Name of Teacher : Ms. Chander Prabha

Months	Topics
August	Cost Accounting: Meaning, Nature, Scope Concept of Cost: elements, types Concept of Material, Inventory control techniques, Pricing of issue of inventory.
September	Labour Cost : Idle time, overtime Labour Turnover, Labour Cost Control, Incentive wage payment plans. Overheads: Meaning, classification, allocation Apportionment and Absorption
October	Unit Costing: Operating Costing Reconciliation of Cost and Financial Accounts.
November	Operating, Contract Costing Process Costing including Inter process Profit Accounts.

Class: B.COM (Hons) II

Subject: Statistical Analysis with MS-Excel

Semester: 4th sem

Session: 2023-2024

Name of Teacher: Ms. Chander Prabha

Months	Topics
January	Data Collection Collection of Primary Data Questionnaires, Schedule Secondary Data Data preparation process, missing values.
February	Descriptive statistics and steps Mean, median, Mode, range, Standard Deviation, skewness, Kurtosis, Sampling and statistical inference. Sampling and non-sampling errors Central Limit theorem
March	Test of Hypothesis with MS-Excel Hypothesis testing Level of significance Two tailed and one tailed tests Hypothesis testing for mean, median proportion.
April	Chi-square test Analysis of variance with MS-Excel SPSS - coding, graphs, pivot tables, assign weight, missing values etc.

Lesson Plan

Class : B.COM(Hons)-II

Subject: Company Law-I

Semester: 3rd Sem

Session : 2023-2024

Name of Teacher: Ms CHANDER PRABHA

Months	Topics
August	Indian Contract Act, 1872 Contract - meaning, features and types, essentials of valid contract - offer, acceptance, consideration, contractual capacity, free consent. Legality of objects.
September	Void agreements Discharge of agreements, its remedies contingent contracts Quasi - contracts
October	Contract of Indemnity and Guarantee, Contract of Bailment contract of agency Consumer Protection Act.
November	Sale of Goods Act 1930 Performance of contract of sale unpaid seller - meaning, rights of an unpaid seller against the goods and buyer.

Lesson Plan

Class : B.Com (Hons.) - I

Subject : Business Economics

Semester : IInd Sem

Session : 2023-2024

Name of Teacher : Ms. Chander Prabha

Months	Topics
January	Cost of Production Difference between economic and accounting cost. Long run and short run costs of production. Economies and Diseconomies of Scale Shape of Cost Curve.
February	Perfect Competition: Assumptions, price and output decision. Equilibrium of the firm and the industry in short and long run. Difference between accounting and economic profits, producer surplus.
March	Stability analysis - Walrasian and Marshallian. Demand - supply analysis. Other Monopoly and Monopolistic competition and price determination therein.
April	Factors in economic development: Physical and capital formation, role of technology; Sustainability Institutional effects variables in development.

Lesson Plan

Class : B.COM (Hons.) - I

Subject : Fundamentals of Economics

Semester : Ist Sem

Session : 2023 - 2024

Name of Teacher : Ms. Chander Prabha

Month	Topics
August	<p>Concept of demand and the elasticity of demand and supply.</p> <p>Demand curves : Individual^{1st} curve, market demand curve. Movement and shift of Demand curve.</p> <p>Elasticity of demand : price income and cross.</p> <p>Concept of revenue ; Marginal, Average and elasticity of demand.</p>
September	<p>Consumer Behaviour: Notion of indifference and preference.</p> <p>Indifference Curve analysis of consumer Behaviour ;</p> <p>Consumer's equilibrium. Price elasticity and Price consumption curve, income consumption curve and Engel curve, Price change and income and substitution effect.</p>
October	<p>Consumer Surplus: Indifference curve as an analytical tool.</p> <p>Cash subsidy Vs. kind subsidy</p> <p>Revealed Preference</p>
November	<p>Production: Fixed and variable inputs, production function, total, average and marginal products.</p> <p>Law of variable proportions.</p> <p>Production isoquants, marginal rate of technical substitution, economic region of production, optimal combination of resources, the expansion path, isolines, return to scale.</p>

Lesson Plan

Class : B. Com (Pass) - III

Subject : Cost Accounting

Semester : 6th

Session : 2023-2024

Name of Teacher : Ms. Chandraprabha

Months	Topics
January	<p>Process Costing : Meaning, Uses, Preparation, Complete.</p> <p>Joint Product & By-product : Methods, Cost, Inter Process Ac.</p>
February	<p>Contract Costing : Meaning, Features, Preparation, Escalation clause, Contract near completion, Cost plus Contract, Job and Batch Costing</p>
March	<p>Budgetary Control : Meaning, Features, measurement tool, Installation, classification, Responsibility Account</p> <p>Standard Costing : Complete</p>
April	<p>Profit Planning and Marginal Costing : Marginal Cost, Cost-Volume Analysis, Key factors, BEP Analysis, concept of decision making.</p>

Lesson Plan

Department of Commerce.

Class: B.COM (Pass) - III

Subject: Cost Accounting

Semester: 5th Sem

Session: 2023-2024

Name of Teacher: Ms. Chander Prabha

Name	Topics
August	Cost Accounting: Meaning, Nature, Scope Cost Concept Material Cost Accounting Material Cost Control, Pricing.
September	Labour Cost Accounting Wage Payment Methods Incentive Payment Methods Overheads Accounting
October	Unit Costing, Operating Cost Reconciliation of Cost and Financial Accounts.
November	Budgetary Control Costing Standard Costing Marginal Costing Responsibility Accounting

LESSON PLAN (EVEN Sem)
Department of Commerce

CLASS - B.COM Pass ^{IIIrd}

Semester = 6th

Subject :- Accounting for Management (Financial Management)

NAME of Teacher :- Jyoti Radwal

<u>MONTH</u>	<u>TOPICS</u>
AUGUST	<ul style="list-style-type: none">• Nature of Financial Management• Profit Maximization• Financial Planning• Objective of Financial Management
September, October	<ul style="list-style-type: none">• Working Capital Management• Marketable Securities and Receivables Management• Cost of Capital• Leverage analysis• NOI Approach• MM Hypothesis without Taxes
November	<ul style="list-style-type: none">• Dividend Theory and Policy• Walter's model and Golden's Mod of dividend• Stability of dividends forms of dividend

LESSON PLAN

SESSION 2023-24

ODD SEMESTER (Commerce)

Subject :- Business Communication

Class. B.Com ^{Ist} HONS ^{Ist} Sem

Name of Teacher :- MS Jyoti Badwal

MONTH	TOPICS
August	Introduction, Basic Patterns of Business Writing Process Sales Messages Persuasion
September, October	Writing Project Report Business Negotiations E-Correspondence
November	Spoken English for Business - Communication Oral Talking Barrier in address, Speech Mode of delivery Presentation

11/11/23

SESSION 2023-24
DDD SEMESTER (Commerce)

Subject:-

Class B. Com IIIrd Pass, ...
Semester = 5th (International Business Environment
Session = 2023-24

Name of teacher :- Ms Jyoti Badwal

MONTH	Topics
August	<ol style="list-style-type: none">1. Recent global Trends in International Trade & Finance2. Dimensions and Modes of IB3. World Trade System4. Exchange rate System5. IB & Communication6. Global Financial System
September, October	<ul style="list-style-type: none">Foreign market Entry StrategiesAffecting foreign investment decisionsImpact of FDI on Homecontrol Mechanisms in IB.Product and Branding decisions.Managing distribution channelsinternational Promotion.Counter trade Practices
November	<ul style="list-style-type: none">Harmonizing Accounting Difference across Councurrency translation Methods for ConsolidatingFinancial StatementCross cultural challengesSocial Responsibility Issues

LESSON PLAN

SESSION 2023-24

ODD SEMESTER (Commerce)

Subject:-

class B. Com ^{IIIrd} Pass, B. Com ^{IIIrd} HONS.)

Semester = 5th (Entrepreneurship and Small Scale Business)

Session = 2023-24

Name of Teacher :- Ms. Jyoti Badwal

MONTH	TOPICS
August	<ol style="list-style-type: none">1. Entrepreneurship vs. Management Role & functions2. Small Business Development3. Entrepreneurship Motivation,4. National Institute of Entrepreneurship Motivation
September October	opportunity scouting and idea generation Preparation of Project Report Managerial roles and functions in a small business Managing Business growth crises in Business growth
November	Issues in small business marketing Product life cycle Monetary Incentives. State level & grass-root level financial & Non financial.

LESSON PLAN
SESSION 2023-24
ODD SEMESTER (commerce)

Subject :-

CLASS: B.Com IIIrd Pass (Accounting for Management)

Semester :- 5th

Session :- 2023-24

Name of Teacher :- Ms. Jyoti Badwa

Month	Topics
August	'Management Accounting' :- Nature and Scope of Management Accounting, 2. Functions, Scope of Management Accounting, 3. Principles, 3. limitation of Management Accounting, 4. Tools of Management Accounting
September, October	1. Analysis and Interpretation of financial Statement 2. Types of financial analysis 3. Ratio Analysis, Profitability 4. Cash flow statement
November	1. Capital Budgeting 2. Appraisal Method 3. Nature, Need, Importance 4. Capital Rationing

LESSON PLAN
SESSION 2023-24
EVEN SEMESTER

Subject:- Business Statistics-I

CLASS:- B. Com^{and} Pass, B. Com^{and} HONS.

NAME:- Ms Jyoti Badwal

<u>MONTH</u>	<u>TOPICS</u>
August	<ul style="list-style-type: none">• Probability Distribution• Binominal• Poission & Normal distribution
September, October	<ul style="list-style-type: none">• Correlation Analysis• Regression Analysis• Equations,• Lines, Standard error of estimate• Time Series.• Seasonal cyclical and Irregular variation
November	<ul style="list-style-type: none">• Statistical Decision Theory• Bayes' Principle• Statistical Quality Control• Expected opportunity loss

LESSON PLAN

SESSION 2023-24
EVEN SEMESTER

Subject:- Auditing

Class B.Com^{2nd} HONS.

Semester = 4th

Session - 2023-24

Name of Teacher - Ms. Jyoti Badwaj

<u>MONTH</u>	<u>TOPICS</u>
August	<ul style="list-style-type: none">• Audit Planning,• Internal Control• Internal check & Internal audit• Classification of Audit
September, October	<ul style="list-style-type: none">• Audit Companies.• Appointments• Powers, duties and liabilities• Audit of depreciation and Reserves.• Audit Report.
November	<ul style="list-style-type: none">• Tax Audit• Management audit• Cost Audit• Relevant Auditing• Assurance Standards (AASs)

LESSON PLAN
SESSION 2023-24
EVEN SEMESTER

Subject:- AN INTRODUCTION TO ACCOUNTING

Class :- B. Com I HONS.

NAME :- Ms. Jyoti Badwa

Semester = 2nd

MONTH	TOPICS
AUGUST	<ul style="list-style-type: none">• Higher Purchases System and Installment Payment• Lease Accounting (with Accounting) - 19
September, October	<ul style="list-style-type: none">• Branch :- Debtors System, Stocks, whole• Sale basis system.• Preparation of Consolidated Profit & loss Account and Balance Sheet.• Department Account.• Partnership Account.• Rule Garner v/s Murray Rule
November	<ul style="list-style-type: none">• Royalty Accounts.• An Introduction to Tally•

Lesson Plan - 2023-24

English Department

Class - B.A - IInd

Subject - English

Semester - IIIrd

Name of Teacher - Ms. Neelam

Month	Topic
August	Introduction of Poetry Important Poetic forms and Devices. Sonnet XVIII by William Shakespeare Introduction of Phonetic Transcription.
September	Know Thyself by Alexander Pope Elegy Written in a Country Churchyard by Thomas Gray The World is Too Much with Us by William Wordsworth Practice of Synonyms and Antonyms Prepositions
October	Ode on a Grecian Urn by John Keats My Last Duchess by Robert Browning When You are Old by W.B. Yeats Clauses
November	Where the Mind is without Fear by Rabindranath Tagore The Bangle Sellers by Sarojini Naidu Another Woman by Intiaz Dharker Essay Writing Prefixes And Suffixes Verb Patterns

Neelam

Lesson Plan - 2023-24

English Department

Class - B.A.-IInd

Subject - English

Semester - IV

Name of Teacher - Ms. Neelam

Month	Topic
January	One Act Play - The Envoy by Bhasa Phonetic Transcription Translation
February	The Swan Song by Anton Chekhov The Monkey's Paw by William Wymark Jacobs Precis Writing E-mail Writing
March	Before Breakfast by Eugene Gladstone O'Neill Resume Writing Book Reviews
April	The Sleepwalkers by Nissim Ezekiel Dialogue Writing Grammar and Vocabulary

Neelam

Lesson Plan - 2023-24

English Department

Class - B.A-IIIrd

Subject - English

Semester - V

Name of Teacher - Ms. Neelam

Month	Topic
August	Introduction to Novel Evolution and Types of Indian Novel About the Author Brief Summary of The Novel - Raja Rao's "Kanthapura"
September	Introduction of the Literary Terms in Novel. Reading and Analysis of Text Transitional Words/Phrases Sentence and Its Types
October	Chapterwise reading and analysing of text. Conditional Clauses Defining and Non-defining clauses.
November	Reading and Analysis of Text. Precis writing Paragraph writing Story writing

Neelam

Lesson Plan - 2023-24

English Department

Class - B. A - III

Subject - English

Semester - VI

Name of Teacher - Ms. Neelam

Month	Topic
January	Introduction to Drama The Evolution of English Drama Introduction to Elizabethan Age Introduction to the playwright - William Shakespeare
February	Poetics: A Seminal Text on Drama by Aristotle Plot Overview Introduction to the Play Reading and Comprehension
March	Introduction to the Characters of the Play Reading and Analysis of Chapterwise Text. Precis Writing Summarising and Abstracting
April	Textual Reading and Analysing. Letter Writing One-Word Substitution Vocabulary

Neelam