

GDC Memorial College

Bahal (Bhiwani) - 127028

NAAC Accredited Grade "B" (Second Cycle) and Recognized under the Sections 2(f) & 12B of the UGC Act, 1956

Affiliated to Ch. Bansi Lal University, Bhiwani

Lesson Plan- January to April 2026

Name - Mr.. Prem singh Department - Mathematics

Class - B.A/B.Sc. Subject - Analytical Geometry & Vector Calculus.

Semester-4th Subject Code - 24UN-MTH-401

UNIT-1

15-Jan-26 | General equation of second degree

16-Jan-26 | Classification of conic sections

20-Jan-26 | centre, asymptotes

21-Jan-26 | axes, eccentricity

22-Jan-26 | foci and directrices of conics

23-Jan-26 | Tangent at any point to a conic

27-Jan-26 | chord of contact

28-Jan-26 | pole of line to a conic

29-Jan-26 | director circle of a conic

30-Jan-26 | Polar equation of a conic

3-Feb-26 | tangent and normal to a conic

4-Feb-26 | confocal conics

UNIT-2

5-Feb-26 | Sphere: General form

6-Feb-26 | Plane section of a sphere

10-Feb-26 | Sphere through a given circle

11-Feb-26 | Intersection of two spheres

12-Feb-26 | tangent plane and line to a sphere

13-Feb-26 | polar plane and line

17-Feb-26 | Do

18-Feb-26 | orthogonal spheres

19-Feb-26 | Do

20-Feb-26 | radical plane of two spheres

24-Feb-26 | Do

25-Feb-26 | Do

26-Feb-26 | co-axial system of spheres

UNIT-3

27-Feb-26 | Cone: Equation of a cone

3-Mar-26 | Do

4-Mar-26 | Do

5-Mar-26 | right circular cone

6-Mar-26 | Do

10-Mar-26 | quadric cone

11-Mar-26 | Do

12-Mar-26 | enveloping cone

13-Mar-26 | Do

17-Mar-26 | Tangent plane and condition of tangency

18-Mar-26 | Do

19-Mar-26 | Cylinder: Right circular cylinde

20-Mar-26 | Do

24-Mar-26 | enveloping cylinder

25-Mar-26 | Do

26-Mar-26 | Central Conicoids: Equation of tangent plane

27-Mar-26 | Director sphere. Normal to the conicoids

31-Mar-26 | Do

1-Apr-26 | Polar plane of a point. Enveloping cone

2-Apr-26 | Enveloping cylinder of a conicoid, confocal conicoid

3-Apr-26 | Do

7-Apr-26 | confocal conicoid, reduction of second degree equations

UNIT-4

8-Apr-26 | Scalar and Vector product of three vector

9-Apr-26	reciprocal vectors
10-Apr-26	vector differentiation and derivative functions
14-Apr-26	geometrical meanings and vector identities
15-Apr-26	Do
16-Apr-26	Vector integration
17-Apr-26	Do
21-Apr-26	line integral, surface integral and volume integral
22-Apr-26	Do
23-Apr-26	Theorem of Gauss Green
24-Apr-26	Do
28-Apr-26	Stoke and problems based on these
29-Apr-26	Do
30-Apr-26	Do

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Lesson Plan- January to April 2026

Name - Ms. Sanju

Department - Physical Science

Class - B.Sc.(Computer science)

Subject - DBMS

Semester - IV-Semester

Subject Code - 24UN-ICT-401

Week-1	UNIT-1
28-Jan-26	Intro. Of DBMS
29-Jan-26	Functions & Components
Week-2	
2-Feb-26	Database user-Role & Responsibilities,
4-Feb-26	Database System Architecture -1-Tier, 2-Tier, 3-Tier
5-Feb-26	Three Level of Architecture
Week-3	
9-Feb-26	Schemas, Mapping & Instance
11-Feb-26	Data Independence- Logical & Physical
12-Feb-26	Do
Week-4	UNIT-2
16-Feb-26	Data-Models-Hierarchical , Network & Relational Data Models
18-Feb-26	ER-Model
19-Feb-26	Types of Attributes, Keys
Week-5	
23-Feb-26	Key Integrity Constraints
25-Feb-26	ER-Diagram
26-Feb-26	Symbolic Notations for designing
Week-6	
2-Mar-26	Test & Assignment
Week-7	UNIT-3
9-Mar-26	Intro. Of SQL
11-Mar-26	Data types
12-Mar-26	SQL Components: DDL, DML, DCL, & DQL
Week-8	
16-Mar-26	Do
18-Mar-26	Joins
19-Mar-26	Queries & Sub-queries
Week-9	
23-Mar-26	Indexes
25-Mar-26	Relational Algebra-Basic Operations
Week-10	
30-Mar-26	Relational Calculus-Tuple Relational & Domain Relational Calculus
Week-11	
1-Apr-26	Relational Algebra Vs. Relational Calculus
2-Apr-26	Do
Week-12	UNIT-4
6-Apr-26	Relational Model-Functional Dependency , Characteristics
8-Apr-26	Rule of Functional Dependency
9-Apr-26	Types of Functional Dependency
Week-13	
13-Apr-26	Normalizations-1-NF, 2-NF, 3-NF

15-Apr-26	Do
16-Apr-26	Do
Week-14	
20-Apr-26	Dependencies-Join dependencies
22-Apr-26	Domain Key normal form
23-Apr-26	Do
Week-15	
27-Apr-26	Test & Assignment
29-Apr-26	Revision

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Lesson Plan- January to April 2026

Name - Dr Jyoti Kumari

Department - Physics

Class - B.Sc. Physical Sciences

Subject - Waves & Optics

Semester - 4th

Subject Code - 24UN-PHY-401

Week-1	UNIT-1
27-Feb-26	Interference
28-Feb-26	Interference by Division of Wave Front
30-Feb-26	Young's Double slit Experiment
Week-2	
2-Feb-26	Fresnel's Bi-Prism
3-Feb-26	Applications
4-Feb-26	Phase Change on reflection
6-Feb-26	Do
Week-3	
9-Feb-26	Interference by Division of Amplitude
10-Feb-26	Production of colours in thin films
11-Feb-26	Interference due to transmitted light & reflected light
13-Feb-26	Wedge shaped film
Week-4	
16-Feb-26	Newton's rings
17-Feb-26	Unit-2
18-Feb-26	Diffraction
20-Feb-26	Fresnel's Diffraction
Week-5	
23-Feb-26	Huygens-Fresnel's Theory
24-Feb-26	rectilinear propagation of light
25-Feb-26	Diffraction at a straight edge
27-Feb-26	Diffraction at a circular aperture
Week-6	
2-Mar-26	Fraunhofer Diffraction
6-Mar-26	Transmission grating spectrum
Week-7	Unit-3
9-Mar-26	Polarization
10-Mar-26	Malus Law
11-Mar-26	Huygens's wave theory of double refraction
13-Mar-26	Nicol Prism
Week-8	
16-Mar-26	Do
17-Mar-26	Do
18-Mar-26	Do
20-Mar-26	Do
Week-9	
23-Mar-26	Elliptically polarized light
24-Mar-26	Optical activity
25-Mar-26	Polarimeters
27-Mar-26	Doubts
Week-10	Unit-4
30-Mar-26	Intoduction to Laser

31-Mar-26	absorption & emission of radiation
1-Apr-26	Amplification & population inversion
3-Apr-26	components of laser
Week-11	
6-Apr-26	Do
7-Apr-26	Do
8-Apr-26	Do
10-Apr-26	Doubts
Week-12	
13-Apr-26	Types of Laser
14-Apr-26	Do
15-Apr-26	Do
17-Apr-26	Do
Week-13	
20-Apr-26	Fibre optics
21-Apr-26	Properties
22-Apr-26	Types of Optical Fibre
24-Apr-26	Applications of Optical Fibres
Week-14	
27-Apr-26	Doubts
28-Apr-26	Revision
29-Apr-26	Revision

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Lesson Plan- January to April 2026

Name - Dr. SUMAN DEVI

Department - Chemistry

Class - B.Sc. Physical Sciences

Subject - Chemistry-IV

Semester - 4th

Subject Code - 24UN-CHE-401

Week-1	UNIT-1
27-Jan-26	Chemistry of d block elements-Definition of transition elements, stability of oxidation states
28-Jan-26	Structure of some compounds-TiO ₂ , VOCl ₂ , FeCl ₃ , CuCl ₂ , Ni(CO) ₄ , Magnetic properties
29-Jan-26	Chemistry of f block elements-Lanthanide contraction, oxidation states, magnetic properties
Week-2	
2-Feb-26	General Characteristics, Properties of d block elements, Latimer and Frost diagrams
3-Feb-26	Complex formation, colour & ionic radii, Comparison of ionic radii of 3d, 4d, 5d series elements
4-Feb-26	Actinides-General Characteristics of actinides, Transuranic elements
5-Feb-26	Comparison of properties of lanthanides and actinides with transition elements
Week-3	UNIT-2
9-Feb-26	Thermodynamics-I First law of thermodynamics: statement, concepts of internal energy &
10-Feb-26	concepts of internal energy & enthalpy, heat capacity
11-Feb-26	Heat capacities at constant volume and pressure and their relationship
12-Feb-26	Unit test
Week-4	
16-Feb-26	Joule-Thomson coefficient for ideal gas and real gas and inversion temperature
17-Feb-26	Calculation of w, q, dU, dH for the expansion of real gases under isothermal
18-Feb-26	and adiabatic conditions for reversible process
19-Feb-26	Second law of thermodynamics-Carnot cycle and its efficiency
Week-5	
23-Feb-26	Concept of entropy, entropy as a function of V & T
24-Feb-26	Entropy as a function of P & T
25-Feb-26	Chemical equilibrium-concept of equilibrium constant
26-Feb-26	Clausius -Clapeyron equation and its application
Week-6	Unit -3
2-Mar-26	Alcohols-Monohydric alcohols: Nomenclature, methods of formation by reduction of
5-Mar-26	aldehydes, ketones, carboxylic acids and esters
Week-7	
9-Mar-26	test
10-Mar-26	Hydrogen bonding-acidic nature, reactions of alcohols
11-Mar-26	Phenols-Nomenclature structure and bonding, preparation: cumene hydroperoxide method
12-Mar-26	from diazonium salts, physical properties and acidic character
Week-8	
16-Mar-26	Chemical reactions: electrophilic aromatic substitution, mechanisms of Fries rearrangement

17-Mar-26	Claisen rearrangement, Reimer -Tiemann reaction, Kolbe's reaction
18-Mar-26	Do
19-Mar-26	Unit-4 Aldehydes and ketones-Nomenclature and structure of carbonyl group
Week-9	
23-Mar-26	Unit test
24-Mar-26	Preparation: Oxidation of alcohols from acid chlorides and from nitriles
25-Mar-26	Comparison of reactivities of aldehydes and ketones
Week-10	
30-Mar-26	Mechanism of nucleophilic additions to carbonyl group
31-Mar-26	Benzoin, aldol, Perkin and Knoevenagel condensations
1-Apr-26	Condensation with ammonia and its derivatives, Wittig reaction
2-Apr-26	Mannich reaction, Baeyer-Villiger oxidation of ketones
Week-11	
6-Apr-26	Cannizzaro reaction, MPV, Clemmensen and Wolff Kishner reductions
7-Apr-26	Do
8-Apr-26	Do
9-Apr-26	Revision
Week-12	
13-Apr-26	Unit test
14-Apr-26	Revision
15-Apr-26	Revision
16-Apr-26	
Week-13	
20-Apr-26	Problem discussion
21-Apr-26	Problem discussion
22-Apr-26	Revision
23-Apr-26	Revision
Week-14	
27-Apr-26	Revision
28-Apr-26	Revision
29-Apr-26	revision
30-Apr-26	Revision

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