

# JDC Memorial College

**Bahal (Bhiwani)-127028**

**NAAC Accredited Grade “B” (Second Cycle) and recognized  
under sections 2(f) & 12B of the UGC Act, 1956**

**Affiliated to Ch. Bansi Lal University, Bhiwani**

**Lesson Plan- January to April 2026**

**Name - Dr. Sanjay**

**Department - Physics**

**Class - B.Sc. Computer Science**

**Subject - Atomic and Molecular Spectroscopy**

**Semester- 6<sup>th</sup>**

**Subject Code - 20UPHY-602A**

<b>Week-1</b>	<b>UNIT-1</b>
27-Jan-26	Introduction to Atomic Spectra
28-Jan-26	Bohr Atomic Model
29-Jan-26	Do
<b>Week-2</b>	
2-Feb-26	Energy Level and spectra
3-Feb-26	Corresponding principles and atomic excitation
4-Feb-26	Do
5-Feb-26	Frank-Hertz Experiment
<b>Week-3</b>	
9-Feb-26	Vector Atom Model
10-Feb-26	Do
11-Feb-26	Quantum Numbers associated with Vector Atom Model
12-Feb-26	Penetrating and Non-penetrating Orbits (qualitative)
<b>Week-4</b>	
16-Feb-26	Revision
17-Feb-26	Revision
18-Feb-26	Students's Problem Discussion
19-Feb-26	Unit Test
<b>Week-5</b>	<b>UNIT II</b>
23-Feb-26	Spectral lines in different series of alkali spectra
24-Feb-26	Do
25-Feb-26	Spin Orbit Interaction and Doublet term separation
26-Feb-26	L-S (Russel-Saunders) Coupling
<b>Week-6</b>	
2-Mar-26	j-j coupling
5-Mar-26	Interaction energy for L-S coupling
<b>Week-7</b>	
9-Mar-26	Interaction energy for j-j coupling

10-Mar-26	Zeeman Effect: Normal Zeeman Effect
11-Mar-26	Do
12-Mar-26	Anomalous Zeeman Effect
<b>Week-8</b>	
16-Mar-26	Revision
17-Mar-26	Revision
18-Mar-26	Students's Problem Discussion
19-Mar-26	Unit Test
<b>Week-9</b>	<b>UNIT III</b>
23-Mar-26	Paschen-Back Effect for single valence electron
24-Mar-26	Stark Effect
25-Mar-26	Discrete set of electronic energies of molecules
<b>Week-10</b>	
30-Mar-26	Quantization of vibrational and rotational energies
31-Mar-26	Raman Effect
1-Apr-26	Raman Stokes and anti-stokes Lines
2-Apr-26	Test
<b>Week-11</b>	<b>UNIT IV</b>
6-Apr-26	Introduction to LASER
7-Apr-26	Main Features of Laser
8-Apr-26	Directionality, High Intensity
9-Apr-26	High Degree of Coherence
<b>Week-12</b>	
13-Apr-26	Special and Temporal Coherence
14-Apr-26	Einstien Coefficients and possibility of amplification
15-Apr-26	Threshold Condition for Laser Action
16-Apr-26	Laser Pumping
<b>Week-13</b>	
20-Apr-26	He-Ne Laser
21-Apr-26	Ruby Laser
22-Apr-26	Applications
23-Apr-26	Revision
<b>Week-14</b>	
27-Apr-26	Unit Test
28-Apr-26	Students's Problem Discussion
29-Apr-26	Pre-University Examination
30-Apr-26	Result Discussion

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### Lesson Plan- January to April 2026

Name - Dr. Sukhender

Department - Physics

Class - B.Sc. (NM & CS)

Subject - Nuclear Physics

Semester - 6<sup>th</sup>

Subject Code -20UPHY601A

29.01.2026	Binding energy, average binding energy and its variation with mass number
30.01.2026	Do
<b>Week-2</b>	
03.02.2026	Main features of binding energy versus mass number curve
04.02.2026	NIA plot
05.02.2026	Angular momentum, parity, magnetic moment, electric moments, nuclear excit
06.02.2026	Do
<b>Week-3</b>	
10.02.2026	Nuclear Models: Liquid drop model approach
11.02.2026	Do
12.02.2026	Semi empirical mass formula and significance of various terms, condition of nuclear stability
13.02.2026	Evidence for nuclear shell structure
<b>Week-4</b>	
17.02.2026	Nuclear magic numbers
18.02.2026	Basic assumption of shell model
19.02.2026	Residual interaction and Concept of nuclear force
20.02.2026	Test
<b>Week-5</b>	<b>Unit II</b>
24.02.2026	Gamow factor and Geiger Nuttall law
25.02.2026	$\alpha$ -decay spectroscopy
26.02.2026	$\beta$ -decay: energy kinematics for $\beta$ -decay
27.02.2026	Positron emission and Electron capture
<b>Week-6</b>	
05.03.2026	Neutrino hypothesis
06.03.2026	Do
<b>Week-7</b>	
10.03.2026	Gamma decay: Gamma rays emission & kinematics
11.03.2026	Do
12.03.2026	Internal conversion
13.03.2026	Test
<b>Week-8</b>	<b>UNIT-III</b>
17.03.2026	Nuclear Reactions: Types of Reactions
18.03.2026	Conservation Laws
19.03.2026	Kinematics of reactions
20.03.2026	Q-value, reaction rate, reaction cross section
<b>Week-9</b>	

24.03.2026	Concept of compound and direct reaction
25.03.2026	Coulomb scattering (Rutherford scattering)
27.03.2026	Interaction of Nuclear Radiation with matter: Energy loss due to ionization (Bethe-Block formula)
<b>Week-10</b>	
31.03.2026	Energy loss of electrons and Cerenkov radiation and Gamma ray interaction through
01.04.2026	Photoelectric effect
02.04.2026	Compton scattering
03.04.2026	Do
<b>Week-11</b>	
07.04.2026	Pair production
08.04.2026	Do
09.04.2026	Do
10.04.2026	Test
<b>Week-12</b>	<b>UNIT-IV</b>
14.04.2026	Detector for Nuclear Radiations: Gas detectors
15.04.2026	Do
16.04.2026	Do
17.04.2026	Ionization chamber
<b>Week-13</b>	
21.04.2026	Do
22.04.2026	GM Counter
23.04.2026	Do
24.04.2026	Basic principle of Scintillation Detectors and construction of photo-multiplier tube (PMT)
<b>Week-14</b>	
28.04.2026	Semiconductor Detectors (Si & Ge) for charge particle
29.04.2026	Do
30.04.2026	Test

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### Lesson Plan- Jan- April, 2025

<b>Name - Dr. Poonam Kumari</b>	<b>Department - Botany</b>
<b>Class - B.Sc. (Med.)</b>	<b>Subject - Environmental Biology-II</b>
<b>Semester - 6th</b>	<b>Subject Code - 20UBOT602B</b>
<b>Week-1</b>	<b>UNIT-I</b>
29-Jan-26	Types of Pollution
30-Jan-26	Do
31-Jan-26	Do
<b>Week-2</b>	
5-Feb-26	Effects of Pollution

6-Feb-26	Do
<b>Week-3</b>	
12-Feb-26	Residual Toxicity
13-Feb-26	Do
14-Feb-26	Do
<b>Week-4</b>	<b>UNIT-II</b>
19-Feb-26	Green House Effect and Global Warming
20-Feb-26	Ozone Layer Depletion, Acid Rain
<b>Week-5</b>	
26-Feb-26	Population Growth
27-Feb-26	Urbanization
28-Feb-26	Do
<b>Week-6</b>	<b>UNIT-III</b>
5-Mar-26	Industrilization
6-Mar-26	Effects of Modern Agriculture Practices
<b>Week-7</b>	
12-Mar-26	Basics of Remote Sensing
13-Mar-26	Do
14-Mar-26	GIS
<b>Week-8</b>	<b>UNIT-IV</b>
19-Mar-26	Principals of Bioremediation
20-Mar-26	In-situ and Ex-Situ Bioremediation
<b>Week-9</b>	
26-Mar-26	Bioremediation of Toxic Metals
27-Mar-26	Biological Monitoring
28-Mar-26	Bio-indicators and Control of Environmental Pollution
<b>Week-10</b>	
2-Apr-26	Do
3-Apr-26	Xenobiotics
<b>Week-11</b>	
9-Apr-26	Test
10-Apr-26	Vermicomposting
11-Apr-26	Test
<b>Week-12</b>	
22-Apr-26	Biomining- Extraction of Cu by Microbes
23-Apr-26	Do
24-Apr-26	Au
<b>Week-13</b>	
16-Apr-26	Phytoremediation
17-Apr-26	Do
<b>Week-14</b>	
23-Apr-26	Test
24-Apr-26	Test
25-Apr-26	Revision

<b>Week-15</b>	
30-Apr-26	Test

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## Lesson Plan- January to April 2026

**Name - Jyoti sharma**

**Department - Computer science**

**Class - B.Sc.(Computer science)**

**Subject - Data Mining**

**Semester - VI**

**Subject Code - 20UCS601**

<b>Week-1</b>	<b>UNIT-1</b>
27-Jan-26	Introduction of Data Warehousing
28-Jan-26	Definitions and Description of Data Warehousing
29-Jan-26	Need for data Warehousing
30-Jan-26	Need for strategic information
<b>Week-2</b>	
2-Feb-26	Do
3-Feb-26	Failure of past decision support systems
4-Feb-26	Do
5-Feb-26	Do
6-Feb-26	OLTP vs DHW
7-Feb-26	DHW requirements-trends in DWH-Application of DHW
<b>Week-3</b>	
9-Feb-26	introduction of Data Warehousing Architecture
10-Feb-26	Reference Architecture
11-Feb-26	Components of Reference Architecture
12-Feb-26	Do
13-Feb-26	Do
14-Feb-26	Do
<b>Week-4</b>	
16-Feb-26	Data Warehouse building block
17-Feb-26	Do
18-Feb-26	Do
19-Feb-26	Physical Design process DWH deployment process
20-Feb-26	A multidimensional Data
21-Feb-26	Model Data Warehouse Architecture
<b>Week-5</b>	<b>UNIT-2</b>
23-Feb-26	Introduction of Data Mining
24-Feb-26	Introduction of Data Mining

25-Feb-26	Data Mining Task Vs KDD
26-Feb-26	DO
27-Feb-26	DO
28-Feb-26	DO
<b>Week-6</b>	
2-Mar-26	Do
3-Mar-26	Issue of Data mining
4-Mar-26	Data mining metrics
5-Mar-26	Data Mining Architecture
6-Mar-26	Do
7-Mar-26	Do
<b>Week-7</b>	
9-Mar-26	Do
10-Mar-26	Do cleaning
11-Mar-26	Do cleaning
12-Mar-26	Do
13-Mar-26	Data transformation
14-Mar-26	
<b>Week-8</b>	
16-Mar-26	Data reduction
17-Mar-26	Do
18-Mar-26	Data Mining Primitives
19-Mar-26	Do
20-Mar-26	Association Rule Mining
21-Mar-26	Introduction-Mining single dimensional Boolean Association rule from transactional database
<b>Week-9</b>	
23-Mar-26	Do
24-Mar-26	Mining Multi-dimensional association rules
25-Mar-26	Do
26-Mar-26	Do
27-Mar-26	Do
28-Mar-26	Do
<b>Week-10</b>	<b>UNIT-4</b>
30-Mar-26	Introduction of Classification And prediction
31-Mar-26	Classification Techniques
1-Apr-26	Do
2-Apr-26	Issue regarding classification and prediction
3-Apr-26	Do
4-Apr-26	Do
<b>Week-11</b>	
6-Apr-26	Decision Tree
7-Apr-26	Bayesian classification
8-Apr-26	Classifier accuracy

9-Apr-26	Do
10-Apr-26	Decision tree
11-Apr-26	Decision tree
<b>Week-12</b>	
13-Apr-26	Clustering
14-Apr-26	<b>Do</b>
15-Apr-26	Classifier accuracy
16-Apr-26	Bayesian classification
17-Apr-26	
18-Apr-26	
<b>Week-14</b>	
20-Apr-26	Clustering Method
21-Apr-26	Do
22-Apr-26	Application of other data mining
23-Apr-26	Do
24-Apr-26	Outlier analysis
25-Apr-26	Outlier analysis
<b>Week-15</b>	
27-Apr-26	Clustering
28-Apr-26	Distributed and parallel data mining algorithms
29-Apr-26	Classifier accuracy
30-Apr-26	Bayesian classification

**Signature of Faculty**

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**Lesson Plan- January to April 2026**

**Name - Ms. Sanju**

**Department - Physical Science**

**Class - B.Sc(Physical Sci.)**

**Subject - Management Information System**

**Semester - VI-Semester**

**Subject Code - 20UCS607**

<b>Week-1</b>	<b>UNIT-1</b>
27-Jan-26	Introduction of MIS
28-Jan-26	Data and Information
29-Jan-26	Need of MIS
<b>Week-2</b>	
30-Jan-26	Conceptof MIS
31-Jan-26	Do
2-Feb-26	Factors influencing MIS
3-Feb-26	Do

4-Feb-26	Characteristics of MIS
<b>Week-3</b>	
5-Feb-26	Do
6-Feb-26	Technology of MIS
9-Feb-26	Do
10-Feb-26	Structure of MIS
<b>Week-4</b>	
11-Feb-26	Decision making and Role of MIS
12-Feb-26	Data communication, basic H/W required
13-Feb-26	Channel feature and concept of distributed Databases Decision Support
14-Feb-26	Do
16-Feb-26	Data communication, basic H/W required
17-Feb-26	Do
<b>Week-5</b>	
18-Feb-26	Overview components and classification steps in constructing a DSS
19-Feb-26	Do
20-Feb-26	DSS role in business
23-Feb-26	Group Decision support system
24-Feb-26	Do
<b>Week-6</b>	<b>UNIT-2</b>
25-Feb-26	Introduction to information system for strategic planning
26-Feb-26	Information system for strategic advantage
27-Feb-26	Do
28-Feb-26	Strategic role of information system
2-Mar-26	Do
5-Mar-26	Breaking business barriers
<b>Week-7</b>	
6-Mar-26	Do
9-Mar-26	Business process re engineering
10-Mar-26	Do
11-Mar-26	Improving business qualities.
12-Mar-26	Do
<b>Week-8</b>	<b>UNIT-3</b>
13-Mar-26	Introduction to MIS planning
14-Mar-26	Do
16-Mar-26	System Development Methodologies
17-Mar-26	Do
18-Mar-26	Conceptual and detailed design of MIS
19-Mar-26	Do
<b>Week-9</b>	
20-Mar-26	Do
23-Mar-26	Information system analysis
24-Mar-26	Do
25-Mar-26	Information system design

<b>Week-10</b>	
27-Mar-26	Do
28-Mar-26	Design information SDLC
30-Mar-26	Do
31-Mar-26	Hardware and software acquisition
1-Apr-26	Do
2-Apr-26	System documentation and its tools
<b>Week-11</b>	
3-Apr-26	Do
6-Apr-26	Conversation Method
7-Apr-26	Do
<b>Week-12</b>	<b>UNIT-4</b>
8-Apr-26	Introduction of system implementation
9-Apr-26	Do
10-Apr-26	System implementation strategies and process
11-Apr-26	Do
13-Apr-26	Do
14-Apr-26	System evaluation
<b>Week-13</b>	
15-Apr-26	Do
16-Apr-26	System Maintenance
17-Apr-26	Do
20-Apr-26	Application cross functional MIWS
21-Apr-26	Do
22-Apr-26	Do
<b>Week-14</b>	
23-Apr-26	ERP
24-Apr-26	CRM
25-Apr-26	SCM
27-Apr-26	Transaction Processing
28-Apr-26	Artificial intelligence technologies in business
<b>Week-15</b>	
29-Apr-25	Neural network,Fuzzy logic,Virtual reality,Executive information system
30-Apr-25	Do

Signature of Faculty

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**Lesson Plan- January to April 2026**

<b>Name - Mr.. Prem singh      Department - Mathematics</b>	
<b>Class - B.Sc/B.A      Subject - Special function &amp; integral transforms</b>	
<b>Semester-6th      Subject Code - 20UMTH601</b>	
15-Jan-26	Power series: Series solution of Diff. eq.
20-Jan-26	do
21-Jan-26	do
22-Jan-26	Definition of Beta & Gamma function
27-Jan-26	do
28-Jan-26	Bessel equation
29-Jan-26	do
2-Feb-26	Bessel function and their properties
3-Feb-26	do
4-Feb-26	Convergence recurrence
5-Feb-26	do
9-Feb-26	Relation and generating function
10-Feb-26	do
11-Feb-26	Orthogonality of Bessel function
12-Feb-26	do
<b>UNIT-2</b>	
16-Feb-26	Legendre differential equation
17-Feb-26	solution of Legendre equation
18-Feb-26	do
19-Feb-26	Legendre function
23-Feb-26	properties of Legendre function
24-Feb-26	recurrence relation
25-Feb-26	generatiing function
26-Feb-26	Orthogonality of Legendre function
2-Mar-26	Rodrigues formula foe Legendre function
5-Mar-26	Integral representaion of Legendre polynomial
9-Mar-26	do
10-Mar-26	Test
<b>UNIT-3</b>	
11-Mar-26	Laplace Transforms
12-Mar-26	Linearty of Laplace transforms
16-Mar-26	Shifting Theorem
17-Mar-26	Laplace transforms of derivatives and integral
18-Mar-26	Differentiation and integration of laplace transform
19-Mar-26	Convolution Theorem
23-Mar-26	do
24-Mar-26	Inverse laplace transforms
25-Mar-26	Solution of Ordinary Differential equation with constant coefficients using Laplace Transform
26-Mar-26	Test
<b>UNIT-4</b>	
30-Mar-26	Fourier transforms
31-Mar-26	Linearty property

1-Apr-26	Shifting Property
2-Apr-26	Modulation
6-Apr-26	do
7-Apr-26	Convolution Theorem
8-Apr-26	do
9-Apr-26	Fourier transforms of Derivatives
13-Apr-26	Relation between fourier transforms and laplace transforms
14-Apr-26	Parseval's identity for Fourier series
15-Apr-26	do
16-Apr-26	Solution of Ordinary Differential equation with constant coefficients using Fourier Transform
18-Apr-26	do
20-Apr-26	Revision
21-Apr-26	Revision
22-Apr-26	Revision
23-Apr-26	Revision
28-Apr-26	Revision
29-Apr-26	Revision
30-Apr-26	Revision

<b>GDC Memorial College</b>	
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<b>Name - Jaiveer</b>	<b>Department - Mathematics</b>
<b>Class - B.A/B.sc</b>	<b>Subject - Advance Calculus</b>
<b>Semester - 6th</b>	<b>Subject Code - 20UMTH604</b>
<b>Lesson Plan- January to April 2026</b>	
<b>Week-1</b>	<b>UNIT-1</b>
28-Jan-26	Uniform continuity
29-Jan-26	Chain rule of differentiability
30-Jan-26	Do
<b>Week-2</b>	
2-Feb-26	Mean Value Theorems
4-Feb-26	Rolle's Theorem
5-Feb-26	Do
6-Feb-26	Lagrange's Mean Value Theorem
<b>Week-3</b>	
9-Feb-26	Taylor's Theorem with remainders
11-Feb-26	Do
12-Feb-26	Darboux Intermediate Value Theorem
13-Feb-26	Do
<b>Week-4</b>	<b>Unit-2</b>
16-Feb-26	Indeterminate forms
18-Feb-26	Limit and continuity of functions of two variables
19-Feb-26	Do

20-Feb-26	Partial differentiation
<b>Week-5</b>	
23-Feb-26	Total differentials
25-Feb-26	Composite functions
26-Feb-26	Implicit functions
27-Feb-26	
<b>Week-6</b>	
2-Mar-26	Change of variables
5-Mar-26	Homogeneous functions and Euler's theorem
6-Mar-26	Do
<b>Week-7</b>	<b>Unit-3</b>
9-Mar-26	Taylor's theorem for functions of two variables
11-Mar-26	Differentiability of functions of two variables
12-Mar-26	Do
13-Mar-26	Schwarz theorem
<b>Week-8</b>	
16-Mar-26	Young's theorem
18-Mar-26	Do
19-Mar-26	Implicit function theorem
20-Mar-26	Do
<b>Week-9</b>	
23-Mar-26	Maxima, Minima and saddle points
25-Mar-26	Do Do
26-Mar-26	Test
27-Mar-26	





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