

# **LESSON PLANS**

**DEPARTMENT OF SCIENCE**

**B.Sc. (MEDICAL)/  
B.Sc.(NON MEDICAL)/  
B.Sc. (BIO-TECH)/  
M.Sc.(MATHS)/  
M.Sc. (CHEMISTRY)**

**SESSION:**

**April 2021-August 2021**

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**Name of the Assistant/Associate Professor: Dr. Meenu Dua**  
**Class and Section: B.Sc. (Non-Medical) 4th Semester, Section-A**  
**Subject: Physical Chemistry (CH-403)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Electrochemistry-III : Introduction, electrolytic and galvanic cells, reversible and irreversible cells
17.4.2021	Conventional representation of electrochemical cells , EMF of cell and its measurement, Weston standard cell
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Activity and activity coefficient, calculation of thermodynamic quantities of cell reaction
24.4.2021	Types of reversible electrodes - metal-metal Ion gas electrode , metal-insoluble salt anion and redox electrodes
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Electrode reactions , Nernst equations , derivation of cell EMF and single electrode potential
01.5.2021	Standard hydrogen electrode ,reference electrode, standard electrode potential
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Sign conventions, electrochemical series and its applications
08.5.2021	Numericals and Assignment
09.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Test
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	

19.5.2021	
20.5.2021	
21.5.2021	Electrochemistry-IV : concentration cells without transference
22.5.2021	Concentration cells with transference and Liquid junction potential
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Application of EMF measurement, i.e, valency of ions, solubility product activity coefficient
29.5.2021	Determination of pH using hydrogen electrode, Quinhydrone electrode and glass electrode
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
04.6.2021	Potentiometric titration ( acid ,base and redox )
05.6.2021	Test and assignment
06.6.2021	<b>SUNDAY</b>
07.6.2021	
08.6.2021	
09.6.2021	
10.6.2021	
11.6.2021	Thermodynamics-III: second law of thermodynamics, need for the law ,different statements of the law
12.6.2021	Carnot's cycle and its efficiency Carnot's theorem
13.6.2021	<b>SUNDAY</b>
14.6.2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Thermodynamics scale of temperature , concept of entropy, entropy as a state function
19.6.2021	Entropy as a function of V and T, entropy as a function of P and T, entropy change in physical change
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Entropy as a criteria of spontaneity and equilibrium, entropy change in ideal gases and mixing of gases
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Nernst heat theorem
03.7.2021	Third law of thermodynamics

04.7.2021	<b>SUNDAY</b>
05.7.2021	
06.7.2021	
07.7.2021	
08.7.2021	
09.7.2021	Statement of concept of residual entropy, Gibbs and helmholtz functions as thermodynamics quantities
10.7.2021	Criteria for thermodynamics equilibrium and spontaneity, their advantage
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	Variation of G and A with P, V and T
17.7.2021	Numericals and Assignment
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	Numerical and revision
24.7.2021	Test

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**Name of the Assistant/Associate Professor: Dr. Meenu Dua**  
**Class and Section: B.Sc. (Non-Medical) 4<sup>th</sup> Semester, Section-B**  
**Subject: Physical Chemistry (CH-403 )**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Electrochemistry-III : Introduction, electrolytic and galvanic cells, reversible and irreversible cells
13.4.2021	Conventional representation of electrochemical cells , EMF of cell and its measurement, Weston standard cell
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Activity and activity coefficient, calculation of thermodynamic quantities of cell reaction
20.4.2021	Types of reversible electrodes - metal-metal Ion gas electrode , metal-insoluble salt anion and redox electrodes
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Electrode reactions , Nernst equations , derivation of cell EMF and single electrode potential
27.4.2021	Standard hydrogen electrode ,reference electrode, standard electrode potential
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Sign conventions, electrochemical series and its applications
04.5.2021	Numericals and Assignment
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Test
11.5.2021	Electrochemistry-IV : concentration cells without transference
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>

17.5.2021	Concentration cells with transference, Liquid junction potential
18.5.2021	Application of EMF measurement, i.e, valency of ions, solubility product activity coefficient
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Determination of pH using hydrogen electrode, Quinhydrone electrode and glass electrode
25.5.2021	Potentiometric titration ( acid ,base and redox )
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Numericals
01.6.2021	Thermodynamics-III: second law of thermodynamics, need for the law ,different statements of the law
02.6.2021	
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	Carnot's cycle and its efficiency Carnot's theorem
08.6.2021	Thermodynamics scale of temperature, concept of entropy, entropy as a state function
09.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Entropy as a function of V and T, entropy as a function of P and T, entropy change in physical change
15.6.2021	Entropy as a criteria of spontaneity and equilibrium, entropy change in ideal gases and mixing of gases
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Numerical and Assignment
22.6.2021	Test
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	

26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Nernst heat theorem
29.6.2021	Third law of thermodynamics
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Statement of concept of residual entropy, Gibbs and helmholtz functions as thermodynamics quantities
06.7.2021	Criteria for thermodynamics equilibrium and spontaneity, their advantage
07.7.2021	
08.7.2021	
09.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Variation of G and A with P, V and T
13.7.2021	Numerical
14.7.2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Test
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Meenu Dua**  
**Class and Section: B.Sc. (Non- Med) 6<sup>th</sup> semester, ( section –A)**  
**Subject: Physical Chemistry (CH-602)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Introduction of Electronic Spectrum
17.4.2021	Concept of potential energy curves for antibonding or bonding molecular orbital
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	qualitative description of selection rules and Frank -Condon principle
24.4.2021	qualitative description of sigma or pi and n molecular orbital(MO) their energy level and respective transitions.
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Photochemistry: Interaction of radiation with matter, difference between thermal and photochemical process, laws of photochemistry
01.5.2021	Grotthus- Drapperlaw, stark Einstein law, Quantum yield, photosensitizers and inhibitors.
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Test of Electronic spectrum
08.5.2021	Jablonski diagram (Qualitative description of fluorescence ,phosphorescence ,non radiative process)
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Solutions: Ideal and non- ideal solution, Methods of expressing concentration of solution ,activity and activity coefficient
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	

19.5.2021	
20.5.2021	
21.5.2021	Colligative properties ,Raolut's law , Relative lowering of vapour pressure, Molecular weight determination
22.5.2021	Osmosis law of osmotic pressure and its measurement ,determination of molecular weight from osmotic pressure
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Test of photochemistry and assignment
29.5.2021	Elevation in boiling point and its experimental determination and calculation of molecular weight.
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	depression in freezing pointand its experimental determination and calculation of molecular weight.
5.6.2021	Abnormal molar mass ,van'thoff factor and its applications
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	TEST: Colligative properties and assignment
12.6.2021	Phase Equillibrium : statement and meaning of the terms –phase, component, degree of freedom
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	thermodynamic derivation of Gibbs phase rule
19.6.2021	Phase equilibria of one component system: Water system
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Phase equilibria of one component system:sulphur system
26.6.2021	Phase equilibria of two component system solid-liquid equilibria
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Simple eutectic, Lead-silver system, Desilverisation of lead
03.7.2021	Doubt class

04.7.2021	<b>SUNDAY</b>
05.7.2021	
06.7.2021	
07.7.2021	
08.7.2021	
09.7.2021	TEST: Phase equilibrium and assignment
10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	
15.7.2021	
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Dr. Sheel Singh**

**Class and Section: B.Sc. (Medical) 6th Semester,**

**Subject: Economic Botany, (Code-6.1)**

**Mode of Teaching: Online**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to Economy Botany
13.4.2021	Vavilov's centers of origin of crop plants. Origin ,distribution, Botanical description of wheat
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Origin ,distribution, Botanical description of Rice
20.4.2021	Origin ,distribution, Botanical description of maize
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Origin, distribution , Economic importance & Cultivation of Gram
27.4.2021	Origin, distribution , Economic importance & Cultivation of arhar
28.4.2021	Origin, distribution , Economic importance & Cultivation of pea
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Origin, distribution , Economic importance & Cultivation of Potato & Tomato
04.5.2021	Origin, distribution , Economic importance & Cultivation of Onion
05.5.2021	Test of Rice, Wheat , Maize, Gram, Arhar, Pea
06.5.2021	
07.5.2021	
08.5.2021	Assignment On the above mentioned topics
9.5.2021	<b>SUNDAY</b>
10.5.2021	Origin, distribution , Botanical description, cultivation of ground nut
11.5.2021	Origin, distribution , Botanical description, cultivation of Mustard
12.5.2021	Origin, distribution , Botanical description, cultivation etc. of Sunflower,coconut
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Revision of Unit I & II
18.5.2021	Group discussion & seminar on topics covered
19.5.2021	Test of Unit I and unit II
20.5.2021	
21.5.2021	

22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Morphological description, brief idea of cultivation and uses of Coriander
25.5.2021	Morphological description, brief idea of cultivation and uses of Ferula
26.5.2021	Morphological description, brief idea of cultivation and uses of Ginger
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Morphological description, cultivation and uses of Medical plants: Cinchona
01.6.2021	Morphological description, cultivation and uses of turmeric & clove
02.6.2021	Assignment On spices
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	Medicinal plants Rouwolfia, Atropa, Withania
08.6.2021	Medicinal plants Opium, Cannabis, Azadirachta
09.6.2021	Botanical description , processing, uses of Beverages
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	Botanical description , processing, uses of Tea & Coffee
15.6.2021	Botanical description , processing, uses of Rubber
16.6.2021	Test of Medicinal plants & Beverages
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Botanical description , processing, uses of Sugarcane
22.6.2021	Assignment On sugarcane
23.6.2021	Assignment On medicinal plants & beverages
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	General account & sources of timber
29.6.2021	Energy plantation
30.6.2021	General account of teak ,sal , and pine
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Carbon trading
06.7.2021	Biofuels
07.7.2021	Test of unit -3
08.7.2021	
09.7.2021	
10.7.2021	

11.7.2021	<b>SUNDAY</b>
12.7.2021	Assignment on Biofuels
13.7.2021	Revision
14.7.2021	Revision On Timber & Biofuels
15.7.2021	
16.7.2021	Test of unit 4



**Name of the Assistant/Associate Professor: Dr. Sheel Singh**

**Class and Section: B.Sc (medical ) 6<sup>th</sup> semester**

**Subject: Biochemistry and Plant Biotechnology(6.2)**

**Mode of Teaching: Online**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction to biochemistry and Biotechnology
13.4.2021	Basics of Enzymology, Definition and general aspects
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Discovery, Nomenclature and characters of enzyme
20.4.2021	Mechanism of Enzymes, Types, Regulation of its activity of enzymes
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Test and Revision of Enzymes
27.4.2021	Introduction to Respiration, RQ values
28.4.2021	Substrates, aerobic and anaerobic respiration, Fermentation
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Mechanism of aerobic and anaerobic respiration
04.5.2021	EMP, pathway, Kerb cycle
05.5.2021	, ETC, chemo osmotic theory
06.5.2021	
07.5.2021	
08.5.2021	
09.5.2021	<b>SUNDAY</b>
10.5.2021	Oxidative phosphorylation,
11.5.2021	Pentose Phosphate Pathway ,its significance
12.5.2021	Factors affecting rate of respiration
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	ATP(Energy coupling factors)
18.5.2021	Structure and Functions of ATP
19.5.2021	Alternative pathway of Glucose Breakdown
20.5.2021	
21.5.2021	

22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Redox potential and ETC(EMP) Pathway
25.5.2021	Doubts and Seminar on Unit-11
26.5.2021	Test of topics covered and revision of respiration
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Structure and Functions of Lipids
01.6.2021	Structure of Fats,Glycerol& Fatty acids
02.6.2021	Fatty acids Biosynthesis
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	L & B Oxidation, saturated and Unsaturated Fatty acids
08.6.2021	Storage and metabolism of fatty acids
09.6.2021	Importance of Fat metabolism
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	Nitrogen, its metabolism, Basic idea
15.6.2021	Biology of Nitrogen metabolism
16.6.2021	Importance of nitrate reductase and Nitrogen cycle
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Regulation of Nitrogen Metabolic pathway, Ammonium assimilation
22.6.2021	Test of lipid and Nitrogen Metabolism/ Assignment on the topics taught
23.6.2021	DNA:-its structure, Function and importance
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Introduction to tools and techniques of DNA
29.6.2021	Techniques of recombinant DNA technology
30.6.2021	Cloning vectors, Genomics &cDNA library
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Transposable elements
06.7.2021	Plant tissue Culture,its application
07.7.2021	Differentiation, Morphogenesis and Biology of Agrobacterium,
08.7.2021	
09.7.2021	
10.7.2021	

11.7.2021	<b>SUNDAY</b>
12.7.2021	Vectors
13.7.2021	Marker genes
14.7.2021	Test and Revision of the topics covered
15.7.2021	Revision /assignment on the topics taught
16.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Beena Sethi**  
**Class and Section: B.Sc. (Non- Med) 4<sup>th</sup>Semester, Section –B**  
**Subject: Inorganic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Introduction
17.4.2021	Electronic Configuration
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Electronic Configuration
24.4.2021	oxidation states
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	atomic and ionic size
01.5.2021	atomic and ionic size
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Intro to Lanthanoids
08.5.2021	Intro to Actinoids
09.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	lanthanoide contraction
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	magnetic properties
22.5.2021	spectral properties

23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Isolation
29.5.2021	trans uranic elements
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
04.6.2021	trans uranic elements
05.6.2021	difference between lanthanoid and actinoid
06.6.2021	<b>SUNDAY</b>
07.6.2021	
08.6.2021	
09.6.2021	
10.6.2021	
11.6.2021	qualitative and quantitative analysis- Introduction
12.6.2021	Qualitative analysis
13.6.2021	<b>SUNDAY</b>
14.6.2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Qualitative analysis
19.6.2021	Qualitative analysis
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	acid radical and basic radicals
26.6.2021	acid radical analysis
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	basic radicals analysis
03.7.2021	Quantitative analysis
04.7.2021	<b>SUNDAY</b>
05.7.2021	
06.7.2021	
07.7.2021	
08.7.2021	
09.7.2021	Quantitative Analysis
10.7.2021	Quantitative Analysis

11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	
15.7.2021	
16.7.2021	Revision of Lanthenoids
17.7.2021	Revision of Actinoids
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	Revision of qualitative analysis
24.7.2021	Revision of quantitative analysis

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**Name of the Assistant/Associate Professor: Dr. Beena Sethi**  
**Class and Section: B.Sc. (Non- Med) 4<sup>th</sup> semester, ( section –A)**  
**Subject: Inorganic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction
13.4.2021	electronic configuration
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	electronic configuration
20.4.2021	oxidation states
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	atomic and ionic size
27.4.2021	Lanthanoids and actinoids
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	lanthanoide contraction
04.5.2021	magnetic properties
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
09.5.2021	<b>SUNDAY</b>
10.5.2021	spectral properties
11.5.2021	Isolation
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	nuclear fuels
18.5.2021	transuranic elements
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	

23.5.2021	<b>SUNDAY</b>
24.5.2021	qualitative analysis
25.5.2021	qualitative analysis
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	qualitative analysis
01.6.2021	qualitative analysis
02.6.2021	
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	qualitative analysis
08.6.2021	qualitative analysis
09.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	quantitative analysis
15.6.2021	quantitative analysis
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	quantitative analysis
22.6.2021	quantitative analysis
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	quantitative analysis
29.6.2021	quantitative analysis
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Revision of lanthenoids and actinoids
06.7.2021	Revision of lanthenoids and actinoids
07.7.2021	
08.7.2021	
09.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>

12.7.2021	Revision of qualitative analysis
13.7.2021	Revision of qualitative analysis
14.7.2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Revision of quantitative analysis
20.7.2021	Revision of quantitative analysis
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Beena Sethi**  
**Class and Section: B.Sc. (Non- Med) 6<sup>th</sup> semester, ( section –B)**  
**Subject: Inorganic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction
13.4.2021	organo metallic compounds
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Effective atomic number
20.4.2021	Effective atomic number
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	bonding in omc
27.4.2021	bonding in omc
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	organolithum compounds
04.5.2021	organoaluminium compounds
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
09.5.2021	<b>SUNDAY</b>
10.5.2021	organo tin compounds
11.5.2021	organo mercury compounds
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	organo cadmium compounds
18.5.2021	Carbonyls
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	

23.5.2021	<b>SUNDAY</b>
24.5.2021	Hsab
25.5.2021	Hsab
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Hsab
01.6.2021	
02.6.2021	
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	silicones and phosphazenes
08.6.2021	silicones and phosphazenes
09.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	silicones and phosphazenes
15.6.2021	silicones and phosphazenes
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Bio Chemistry
22.6.2021	Bio Chemistry – Nitrogen fixation
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Haemoglobin, Myoglobin
29.6.2021	Biological role of ions
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Cooperativity
06.7.2021	Symbiosis
07.7.2021	
08.7.2021	
09.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>

12.7.2021	Revision of HSAB and Organometallic
13.7.2021	Revision of Silicocones and Phosphzines and Bio chemistry
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Shveta Arya**  
**Class and Section: B.Sc. (Medical) 6<sup>th</sup> Semester, Section-A&B**  
**Subject: Zoology**  
**Paper: Entomology (6.1)**  
**Mode of Teaching: Online &Offline: Online**  
**Lectures Per Week: 27**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	-
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Discussion regarding books and introduction to syllabus
16.4.2021	Entomology, classification of insects
17.4.2021	Pest Management Concept
18.4.2021	<b>SUNDAY</b>
19.4.2021	-
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Pests of Sugarcane – Life cycle, Damage and control measures
23.4.2021	Continued the same topic
24.4.2021	Continued the same topic
25.4.2021	<b>SUNDAY</b>
26.4.2021	-
27.4.2021	-
28.4.2021	Test of Pests of Sugarcane
29.4.2021	Pests of Cotton – Life cycle, Damage and control measures
30.4.2021	Continued the same topic
01.5.2021	Pests of Wheat – Life cycle, Damage and control measures
02.5.2021	<b>SUNDAY</b>
03.5.2021	-
04.5.2021	-
05.5.2021	-
06.5.2021	Pests of Paddy – Life cycle, Damage and control measures
07.5.2021	Continued the same topic
08.5.2021	Assignment on Pests of Cotton
09.5.2021	<b>SUNDAY</b>
10.5.2021	-
11.5.2021	-
12.5.2021	-
13.5.2021	Pests of Vegetables – Life cycle, Damage and control measures
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Continued the same topic
16.5.2021	<b>SUNDAY</b>
17.5.2021	-
18.5.2021	-
19.5.2021	-
20.5.2021	Continued the same topic
21.5.2021	Test of pests of Cotton and Wheat
22.5.2021	Pests of Stored grains– Life cycle, Damage and control measures

23.5.2021	<b>SUNDAY</b>
24.5.2021	-
25.5.2021	-
26.5.2021	-
27.5.2021	Assignment on pests of Stored grains
28.5.2021	Biological control of insects Biological control, its history, requirement and precautions and feasibility of biological agents for control.
29.5.2021	Continued the same topic
30.5.2021	<b>SUNDAY</b>
31.5.2021	-
01.6.2021	-
02.6.2021	-
03.6.2021	Continued the same topic
04.6.2021	Chemical control of insects: History, Categories of pesticides. Important pesticides from each category to pests against which they can be used.
05.6.2021	Continued the same topic
06.6.2021	<b>SUNDAY</b>
07.6.2021	-
08.6.2021	-
09.6.2021	-
10.6.2021	Continued the same topic
11.6.2021	Continued the same topic
12.6.2021	Insect repellants and attractants.
13.6.2021	<b>SUNDAY</b>
14.6.2021	-
15.6.2021	-
16.6.2021	-
17.6.2021	Test of pests of Vegetables & Stored grains
18.6.2021	Integrated pest management
19.6.2021	Integrated pest management
20.6.2021	<b>SUNDAY</b>
21.6.2021	-
22.6.2021	-
23.6.2021	-
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Important bird pests of agriculture & their management
26.6.2021	Important rodent pests of agriculture & their management
27.6.2021	<b>SUNDAY</b>
28.6.2021	-
29.6.2021	-
30.6.2021	-
01.7.2021	Revision
02.7.2021	Revision
03.7.2021	Revision
04.7.2021	<b>SUNDAY</b>
05.7.2021	-
06.7.2021	-
07.7.2021	-
08.7.2021	Revision
09.7.2021	Revision

10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	-
13.7.2021	-
14.7.2021	-
15.7.2021	Revision
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Dr. Shveta Arya**  
**Class and Section: B.Sc.(Medical) 6<sup>th</sup> semester, Section- A&B**  
**Subject: Zoology**  
**Paper: Developmental Biology (6.2)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 27**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	-
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Discussion regarding books and introduction to syllabus
16.4.2021	Historical perspectives, aims and scope of developmental biology
17.4.2021	Continued the same topic
18.4.2021	<b>SUNDAY</b>
19.4.2021	-
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Generalized structure of mammalian ovum & sperm
23.4.2021	Continued the same topic
24.4.2021	Assignment on History of Developmental Biology
25.4.2021	<b>SUNDAY</b>
26.4.2021	-
27.4.2021	-
28.4.2021	-
29.4.2021	Process of Spermatogenesis
30.4.2021	Continued the same topic
01.5.2021	Process of Oogenesis
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test of History of Developmental Biology
04.5.2021	-
05.5.2021	-
06.5.2021	Process of Oogenesis
07.5.2021	Fertilization-Types ,Process and significance
08.5.2021	Continued the same topic
9.5.2021	<b>SUNDAY</b>
10.5.2021	-
11.5.2021	-
12.5.2021	-
13.5.2021	Parthenogenesis- types and Significance
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Different types of eggs
16.5.2021	<b>SUNDAY</b>
17.5.2021	-
18.5.2021	-
19.5.2021	-
20.5.2021	Patterns of cleavage in invertebrates and vertebrates
21.5.2021	Process of blastulation in Invertebrates
22.5.2021	Process of blastula ion in Vertebrates

23.5.2021	<b>SUNDAY</b>
24.5.2021	Test of Spermatogenesis
25.5.2021	-
26.5.2021	-
27.5.2021	Continued the same topic
28.5.2021	Fate-map construction in frog
29.5.2021	Fate-map construction in Chick
30.5.2021	<b>SUNDAY</b>
31.5.2021	-
01.6.2021	-
02.6.2021	-
03.6.2021	Assignment on Parthenogenesis
04.6.2021	Gastrulation in invertebrates
05.6.2021	Continued the same topic
06.6.2021	<b>SUNDAY</b>
07.6.2021	-
08.6.2021	-
09.6.2021	-
10.6.2021	Gastrulation in vertebrates
11.6.2021	Continued the same topic
12.6.2021	Gastrulation & formation of three germinal layers in frog
13.6.2021	<b>SUNDAY</b>
14.6.2021	-
15.6.2021	-
16.6.2021	-
17.6.2021	Continued the same topic
18.6.2021	Gastrulation & formation of three germinal layers in chick
19.6.2021	Continued the same topic
20.6.2021	<b>SUNDAY</b>
21.6.2021	-
22.6.2021	-
23.6.2021	-
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Extra embryonic membranes: structure & significance in birds
26.6.2021	Test of Fertilization
27.6.2021	<b>SUNDAY</b>
28.6.2021	-
29.6.2021	-
30.6.2021	-
01.7.2021	Extra embryonic membranes: structure & significance in mammals
02.7.2021	Elementary knowledge of primary organizers
03.7.2021	Concepts of competence, determination and differentiation
04.7.2021	<b>SUNDAY</b>
05.7.2021	-
06.7.2021	-
07.7.2021	-
08.7.2021	Continued the same topic
09.7.2021	Concept of regeneration
10.7.2021	Continued the same topic

11.7.2021	<b>SUNDAY</b>
12.7.2021	-
13.7.2021	-
14.7.2021	-
15.7.2021	Revision
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Ms. Vandana Kumari**  
**Class: B.SC. (Non-Med) 6<sup>th</sup> Semester, Section- A & B**  
**Subject: Programming in 'C' and Numerical Methods**  
**Mode of Teaching: Online**  
**Paper Code: 12BSM243**  
**Lectures Per Week: 6**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Syllabus and examination scheme discussed
13.4.2021	Ch 1 (Computers: A General Introduction)
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Ch 1 (Computers: A General Introduction)
16.4.2021	Exercise of Ch-1
17.4.2021	Exercise of Ch-1
18.4.2021	<b>SUNDAY</b>
19.4.2021	Introduction to C (ch-2)
20.4.2021	Introduction to C (ch-2)
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Exercise of ch-2
23.4.2021	Data Types (Ch-3)
24.4.2021	Data Types (Ch-3)
25.4.2021	<b>SUNDAY</b>
26.4.2021	Exercise of ch-3
27.4.2021	Operators(ch-4)
28.4.2021	Operators(ch-4)
29.4.2021	Exercise of Ch-4
30.4.2021	Doubts of Ch-3 and Ch-4
01.5.2021	Decision Control Structure (Ch-5)
02.5.2021	<b>SUNDAY</b>
03.5.2021	Decision Control Structure (Ch-5)
04.5.2021	Exercise of Ch-5
05.5.2021	Loops (ch-6)
06.5.2021	Exercise of Ch-6
07.5.2021	Doubts in Ch-5 and Ch-6
08.5.2021	Assignment on Ch 5 and Ch 6
09.5.2021	<b>SUNDAY</b>
10.5.2021	Functions (Ch-7)
11.5.2021	Functions (Ch-7)
12.5.2021	Ex Ch 7
13.5.2021	Doubts in Ch 7
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Preprocessor(ch-8)
16.5.2021	<b>SUNDAY</b>
17.5.2021	Preprocessor (ex of ch-8)
18.5.2021	Array(ch-9)
19.5.2021	Array(ch-9)
20.5.2021	Array (ex of ch-9)
21.5.2021	Array (ex of ch-9)

22.5.2021	Doubts related to Array
23.5.2021	<b>SUNDAY</b>
24.5.2021	String(ch-10)
25.5.2021	String (ex of Ch-10)
26.5.2021	Doubts of Ch-10
27.5.2021	Preliminaries of Numerical Methods
28.5.2021	Bi-section method and examples
29.5.2021	Ex of Bi-section method
30.5.2021	<b>SUNDAY</b>
31.5.2021	Regula Falsi method and Secant method and Examples
01.6.2021	Ex of Regula Falsi and Secant Method
02.6.2021	Newton Rapson Method and Examples
03.6.2021	Exercise of Newton Rapson Method
04.6.2021	Exercise
05.6.2021	Order of convergence of above methods
06.6.2021	<b>SUNDAY</b>
07.6.2021	Doubts
08.6.2021	Test
09.6.2021	Gauss Elimination method and its examples
10.6.2021	Exercise of Gauss Elimination Method
11.6.2021	Gauss Jordan Method and its Examples
12.6.2021	Exercise of Gauss Jordan Method
13.6.2021	<b>SUNDAY</b>
14.6.2021	Triangularization Methods: Doolittle's Method and example
15.6.2021	Crout's Triangularization Method and example
16.6.2021	Exercise of Doolittle's Method and Crout's Triangularization Method
17.6.2021	Crout's Method and Examples
18.6.2021	Exercise of Crout's Method
19.6.2021	Cholesky's Decomposition Method and its Examples
20.6.2021	<b>SUNDAY</b>
21.6.2021	Exercise of Cholesky's Decomposition Method
22.6.2021	Iterative Methods: Jacobi's Method and its Example
23.6.2021	Gauss Seidel's Method and its Example
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Relaxation Method and its Example
26.6.2021	Exercise of Iterative Methods
27.6.2021	<b>SUNDAY</b>
28.6.2021	Doubts
29.6.2021	Ch-11 (Structures and Unions): Structures
30.6.2021	Ch-11 (Structures and Unions): Unions
01.7.2021	Ch-12 (Pointers)
02.7.2021	Exercise of Pointers
03.7.2021	Test
04.7.2021	<b>SUNDAY</b>
05.7.2021	REVISION of chapter 1,2 and 3
06.7.2021	REVISION of chapter 4,5 and 6
07.7.2021	REVISION of chapter 7,8 and 9
08.7.2021	REVISION of chapter 10 and 11
09.7.2021	REVISION of chapter 12
10.7.2021	Revision of Numerical Method for Solution of algebraic and transcendental equations

	(Bisection method)
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision of Numerical Methods for Solution of algebraic and transcendental equations (Regula Falsi and Secant methods)
13.7.2021	Revision of Numerical Methods for Solution of algebraic and transcendental equations (Newton Rapson method)
14.7..2021	REVISION of Gauss Elimination Method
15.7.2021	REVISION of Gauss Jordan Method
16.7.2021	REVISION of Crout,s AND Doolittle's Decomposition Methods
17.7.2021	REVISION of Cholesky's Decomposition Methods
18.7.2021	<b>SUNDAY</b>
19.7.2021	REVISION of Iterative Methods (Gauss seidel and Jacobi Methods)
20.7.2021	REVISION of Iterative Method (Relaxation method)
21.7.2021	<b>EID</b>
22.7.2021	Question Paper 2019
23.7.2021	Question Paper 2018
24.7.2021	Question Paper 2017

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**Name of the Assistant/Associate Professor: Ms. Vandana Kumari**  
**Class and Section: B.SC. (Non-Med) 6<sup>th</sup> Semester, Section - A**  
**Subject: Dynamics(MATH-III)**  
**Paper Code:12BSM 353**  
**Mode of Teaching: Online**  
**Lectures Per Week: 6**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Syllabus and examination scheme discussed
13.4.2021	Preliminary
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Preliminary
16.4.2021	SHM articles
17.4.2021	SHM examples
18.4.2021	<b>SUNDAY</b>
19.4.2021	SHM exercise
20.4.2021	SHM exercise
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Doubts of SHM
23.4.2021	Articles of Elastic String
24.4.2021	Articles of Elastic String
25.4.2021	<b>SUNDAY</b>
26.4.2021	Elastic of Elastic String
27.4.2021	Exercise of Elastic String
28.4.2021	Exercise of Elastic String
29.4.2021	Doubts of Elastic String
30.4.2021	Test of SHM and Elastic string
01.5.2021	Newton's Laws of Motion (examples ex 5.1)
02.5.2021	<b>SUNDAY</b>
03.5.2021	Newton's Laws of Motion (examples ex 5.1)
04.5.2021	Newton's Laws of Motion ( ex 5.1)
05.5.2021	Newton's Laws of Motion (ex 5.1)
06.5.2021	Newton's Laws of Motion (articles ex 5.2)
07.5.2021	Newton's Laws of Motion (examples ex 5.2)
08.5.2021	Newton's Laws of Motion (ex 5.2)
9.5.2021	<b>SUNDAY</b>
10.5.2021	Newton's Laws of Motion (articles ex 5.3)
11.5.2021	Newton's Laws of Motion (examples ex 5.3)
12.5.2021	Work done (articles and examples ex 6.1)
13.5.2021	Work done for (ex 6.1)
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Power (articles and examples ex 6.2)
16.5.2021	<b>SUNDAY</b>
17.5.2021	Power ( ex 6.2)
18.5.2021	Energy (articles and examples)
19.5.2021	Energy (ex 6.3)
20.5.2021	Doubts of ch 5 and 6
21.5.2021	Test of ch 5

22.5.2021	Projectile (articles of 8.1)
23.5.2021	<b>SUNDAY</b>
24.5.2021	projectile (example of 8.1)
25.5.2021	projectile (ex 8.1)
26.5.2021	examples of ex 8.2
27.5.2021	exercise 8.2
28.5.2021	Doubts of ex 8.1 and 8.2
29.5.2021	Examples of ex 8.3 and articles
30.5.2021	<b>SUNDAY</b>
31.5.2021	Exercise 8.3
01.6.2021	Doubts of exercise 8.3
02.6.2021	Examples and articles of ex 8.4
03.6.2021	Exercise 8.4
4.6.2021	Doubts of exercise 8.4
5.6.2021	Articles and examples of ex 9.1 from Ch 9 (Central Orbits)
6.6.2021	<b>SUNDAY</b>
7.6.2021	Ex 9.1
8.6.2021	Articles ex 9.2
9.6.2021	Examples ex 9.2
10.6.2021	Ex 9.2
11.6.2021	Ex 9.2
12.6.2021	Articles and Examples ch 10(Kepler's Laws of Planetary Motion)
13.6.2021	<b>SUNDAY</b>
14.6.2021	Exercise ch10
15.6.2021	Test of ch 9(Central Orbits)
16.6.2021	Articles of Ch 1(Motion along a plane curve)
17.6.2021	Examples and Exercises 1.1
18.6.2021	Examples and Articles of ex 1.2
19.6.2021	Exercise 1.2
20.6.2021	<b>SUNDAY</b>
21.6.2021	Exercise 1.2
22.6.2021	Examples and Articles of ex 1.3
23.6.2021	Exercise 1.3
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Exercise 1.3
26.6.2021	Articles and Examples of Ch 2(Relative Motion)
27.6.2021	<b>SUNDAY</b>
28.6.2021	Exercise 2.1
29.6.2021	Doubts of Ch 1 and Ch2
30.6.2021	Articles and Examples of Ch 11(Motion of a particle in Three Dimension)
01.7.2021	Exercise 11.1
02.7.2021	Doubts of ch 11
03.7.2021	Examples and exercise 7.1 of Ch 7(Motion of particle in Smooth and Rough Plane Curve)
4.7.2021	<b>SUNDAY</b>
5.7.2021	Examples and exercise 7.2
6.7.2021	Examples and exercise 7.3
7.7.2021	Examples and exercise 7.4
8.7.2021	Examples and exercise 7.5
9.7.2021	Doubts of Ch 7

10.7.2021	Question Paper 2015
11.7.2021	<b>SUNDAY</b>
12.7.2021	Question Paper 2016
13.7.2021	Question Paper 2017
14.7..2021	Question Paper 2018
15.7.2021	Question Paper 2019
16.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Renu Pandey**  
**Class and Section: B. Sc. Biotechnology 4th Semester**  
**Subject: Animal Diversity II BT 401**  
**Mode of Teaching: Online**  
**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction of syllabus
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Proto-chordates: Outline of classification
16.4.2021	
17.4.2021	Proto-chordates: Outline of classification
18.4.2021	<b>SUNDAY</b>
19.4.2021	General features and characters of Herdmania
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	General features and characters of Herdmania
23.4.2021	
24.4.2021	General features and important characters of Branchiostoma
25.4.2021	<b>SUNDAY</b>
26.4.2021	Origin of Chordates
27.4.2021	
28.4.2021	
29.4.2021	Migration in Pisces
30.4.2021	
01.5.2021	Amphibia: Classification
02.5.2021	<b>SUNDAY</b>
03.5.2021	Amphibia: Origin
04.5.2021	
05.5.2021	
06.5.2021	Amphibia: Parental care
07.5.2021	
08.5.2021	Amphibia: Paedogenesis
09.5.2021	<b>SUNDAY</b>
10.5.2021	Assignment on origin, parental care and paedogenesis in amphibia
11.5.2021	
12.5.2021	
13.5.2021	Reptelia: Classification
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Test: Unit I
16.5.2021	<b>SUNDAY</b>
17.5.2021	Reptilia: Origin
18.5.2021	
19.5.2021	
20.5.2021	Aves: Classification
21.5.2021	

22.5.2021	Aves: Origin
23.5.2021	<b>SUNDAY</b>
24.5.2021	Aves: flight-adaptations
25.5.2021	
26.5.2021	
27.5.2021	Aves: migration
28.5.2021	
29.5.2021	Mammalia: Classification
30.5.2021	<b>SUNDAY</b>
31.5.2021	Mammalia: Origin
01.6.2021	
02.6.2021	
03.6.2021	Mammalia: dentition
4.6.2021	
5.6.2021	Assignment on Aves
6.6..2021	<b>SUNDAY</b>
7.6.2021	Test: Unit II
8.6..2021	
9.6.2021	
10.6.2021	Comparative anatomy of vertebrates: Integumentary system
11.6.2021	
12.6.2021	Comparative anatomy of vertebrates: Integumentary system
13.6.2021	<b>SUNDAY</b>
14.6.2021	Comparative anatomy of vertebrates: Digestive system
15.6.2021	
16.6.2021	
17.6.2021	Comparative anatomy of vertebrates: Digestive system
18.6.2021	
19.6.2021	Assignment
20.6.2021	<b>SUNDAY</b>
21.6.2021	Comparative anatomy of vertebrates: Respiratory system
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	Comparative anatomy of vertebrates: Respiratory system
27.6.2021	<b>SUNDAY</b>
28.6.2021	Comparative Anatomy of vertebrates –Heart
29.6.2021	
30.6.2021	
01.7.2021	comparative Anatomy of vertebrate's Aortic arches
02.7.2021	
03.7.2021	Comparative Anatomy of vertebrates – Kidney
04.7.2021	<b>SUNDAY</b>
05.7.2021	Test Unit III
06.7.2021	
07.7.2021	
08.7.2021	Comparative Anatomy of vertebrates – urino-genital system
09.7.2021	
10.7.2021	Comparative Anatomy of vertebrates – urino-genital system

11.7.2021	<b>SUNDAY</b>
12.7.2021	Comparative Anatomy of vertebrates –Brain
13.7.2021	
14.7.2021	
15.7.2021	Comparative Anatomy of vertebrates –Brain
16.7.2021	
17.7.2021	Comparative Anatomy of vertebrates –Ear Eye
18.7.2021	<b>SUNDAY</b>
19.7.2021	Autonomic Nervous system in Mammals
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Revision
23.7.2021	
24.7.2021	Revision



**Name of the Assistant/Associate Professor: Ms. Renu Pandey**

**Class and Section: B. Sc. (Biotechnology) 6th Semester**

**Subject: IPR, Entrepreneurship, biosafety & Bioethics BT 601**

**Mode of Teaching: Online**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to the syllabus
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	Introduction to Indian patent law
18.4.2021	<b>SUNDAY</b>
19.4.2021	Introduction to Indian patent law
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	World trade organization
25.4.2021	<b>SUNDAY</b>
26.4.2021	World trade organization WIPO
27.4.2021	
28.4.2021	Trade Mark ,Design Copyright
29.4.2021	
30.4.2021	
01.5.2021	Trade Mark, Design Copyright
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test Unit I
04.5.2021	
05.5.2021	WTO and related intellectual property provisions
06.5.2021	
07.5.2021	
08.5.2021	Intellectual property
9.5.2021	<b>SUNDAY</b>
10.5.2021	Legal protection in research
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Legal protection in design and development
16.5.2021	<b>SUNDAY</b>
17.5.2021	Patenting in Biotechnology
18.5.2021	
19.5.2021	ethical and depository considerations

20.5.2021	
21.5.2021	
22.5.2021	Assignment Unit I
23.5.2021	<b>SUNDAY</b>
24.5.2021	Entrepreneurship, selection of a product
25.5.2021	
26.5.2021	Stock the product
27.5.2021	
28.5.2021	
29.5.2021	Test Unit II
30.5.2021	<b>SUNDAY</b>
31.5.2021	Release of product
01.6.2021	
02.6.2021	Basic regulation of excise
03.6.2021	
04.6.2021	
05.6.2021	Demand for a given product
06.6.2021	<b>SUNDAY</b>
07.6.2021	Feasibility of its production under constraints of raw material
08.6.2021	
09.6.2021	Energy input and financial situation
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	Export potential
15.6.2021	
16.6.2021	Bioethics-necessity and paradigms
17.6.2021	
18.6.2021	
19.6.2021	Bioethics-necessity and paradigms
20.6.2021	<b>SUNDAY</b>
21.6.2021	Assignment
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	Paradigms of bioethics
27.6.2021	<b>SUNDAY</b>
28.6.2021	Health hazards concerning biotechnology
29.6.2021	
30.6.2021	Health hazards concerning biotechnology
01.7.2021	
02.7.2021	
03.7.2021	Test Unit II
04.7.2021	<b>SUNDAY</b>
05.7.2021	Introduction to contaminant levels
06.7.2021	

07.7.2021	Biosafety levels
08.7.2021	
09.7.2021	
10.7.2021	Introduction to GLP
11.7.2021	<b>SUNDAY</b>
12.7.2021	Introduction to GMP
13.7.2021	
14.7.2021	Revision
15.7.2021	
16.7.2021	



**Name of the Assistant/Associate Professor: Ms. Renu Pandey**

**Class and Section: B. Sc. Biotechnology 2nd Semester**

**Subject: Microbiology BT 202**

**Mode of Teaching: Online**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	Introduction
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	History and Evolution of Microbiology
17.4.2021	History and Evolution of Microbiology
18.4.2021	<b>SUNDAY</b>
19.4.2021	Microbial taxonomy, criteria used including molecular approaches
20.4.2021	Microbial taxonomy, criteria used including molecular approaches
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Microbial taxonomy, criteria used including molecular approaches
24.4.2021	Microbial phylogeny and current classification of bacteria
25.4.2021	<b>SUNDAY</b>
26.4.2021	Microbial phylogeny and current classification of bacteria
27.4.2021	Microbial phylogeny and current classification of bacteria
28.4.2021	
29.4.2021	
30.4.2021	Distribution and characterization Prokaryotic and Eukaryotic cells
01.5.2021	Distribution and characterization Prokaryotic and Eukaryotic cells
02.5.2021	<b>SUNDAY</b>
03.5.2021	Morphology and cell structure of major groups of micro- organisms: bacteria
04.5.2021	Morphology and cell structure of major groups of micro- organisms: bacteria
05.5.2021	
06.5.2021	
07.5.2021	Morphology and cell structure of major groups of micro- organisms: bacteria
08.5.2021	Morphology and cell structure of major groups of micro- organisms: algae, fungi
9.5.2021	<b>SUNDAY</b>
10.5.2021	Assignment
11.5.2021	Nutritional categories of micro-organisms
12.5.2021	
13.5.2021	Nutritional categories of micro-organisms
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test unit I
18.5.2021	Methods of isolation

19.5.2021	
20.5.2021	
21.5.2021	Methods of isolation
22.5.2021	Purification
23.5.2021	<b>SUNDAY</b>
24.5.2021	Preservation
25.5.2021	Microbial growth: Growth curve
26.5.2021	Microbial growth: Growth curve
27.5.2021	
28.5.2021	
29.5.2021	Assignment on Preservation techniques
30.5.2021	<b>SUNDAY</b>
31.5.2021	Microbial growth: synchronous batch and continuous culture
01.6.2021	Microbial growth: synchronous batch and continuous culture
02.6.2021	
03.6.2021	
04.6.2021	Microbial growth: synchronous batch and continuous culture
05.6.2021	Test Unit II
06.6.2021	<b>SUNDAY</b>
07.6.2021	Measurement of growth and factors affecting growth of bacteria
08.6.2021	Measurement of growth and factors affecting growth of bacteria
09.6.2021	
10.6.2021	
11.6.2021	Microbial Metabolism: Metabolic pathways
12.6.2021	Microbial Metabolism: Metabolic pathways
13.6.2021	<b>SUNDAY</b>
14.6.2021	Microbial Metabolism: amphi-catabolic and biosynthetic pathways
15.6.2021	Microbial Metabolism: amphi-catabolic and biosynthetic pathways
16.6.2021	
17.6.2021	
18.6.2021	Bacterial Reproduction: Transformation
19.6.2021	Bacterial Reproduction: Transformation
20.6.2021	<b>SUNDAY</b>
21.6.2021	Bacterial Reproduction: Trasduction
22.6.2021	Bacterial Reproduction: Conjugation
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Endospores and sporulation in bacteria
26.6.2021	Control of Microorganisms: By physical, chemical and Chemo- therapeutic Agents
27.6.2021	<b>SUNDAY</b>
28.6.2021	Control of Microorganisms: By physical, chemical and Chemo- therapeutic Agents
29.6.2021	Control of Microorganisms: By physical, chemical and Chemo- therapeutic Agents

30.6.2021	
01.7.2021	
02.7.2021	Water Microbiology: Bacterial pollutants of water, coliforms and non- coliforms.
03.7.2021	Assignment on Bacterial reproduction
04.7.2021	<b>SUNDAY</b>
05.7.2021	Water Microbiology: Sewage composition and its disposal.
06.7.2021	Water Microbiology: Sewage composition and its disposal.
07.7.2021	
08.7.2021	
09.7.2021	Food Microbiology: Important microorganism in food
10.7.2021	Food Microbiology: Important microorganism in food
11.7.2021	<b>SUNDAY</b>
12.7.2021	Moulds, Yeasts, bacteria
13.7.2021	Major food born infections and intoxications
14.7.2021	
15.7.2021	
16.7.2021	Preservation of various types of foods. Fermented Foods
17.7.2021	Test Unit IV
18.7.2021	<b>SUNDAY</b>
19.7.2021	Bio engineering of microorganism for Industrial purposes, Industrial uses of bacteria, Yeasts, moulds
20.7.2021	Bio engineering of microorganism for Industrial purposes, Industrial uses of bacteria, Yeasts, moulds
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	Bio engineering of microorganism for Industrial purposes,
24.7.2021	Industrial uses of bacteria, Yeasts, moulds
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision
27.6 2021	Revision
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Manisha Suri**  
**Class and Section: B.Sc /B.A. 2<sup>nd</sup>Semester**  
**Subject: Number theory & Trigonometry**  
**Subject Code:BM-121**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 6**

Date	Topic to be Covered
12.4.2021	Introduction to G.C.D
13.4.2021	Theorems
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction to L.C.M
16.4.2021	Examples and exercise problem
17.4.2021	Theorems
18.4.2021	<b>SUNDAY</b>
19.4.2021	Gauss theorems
20.4.2021	Theorems related to G.C.D
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Exercise
23.4.2021	Test
24.4.2021	Prime-number & theorems related to Prime Number
25.4.2021	<b>SUNDAY</b>
26.4.2021	Euclid's Theorems
27.4.2021	Examples and Exercise problem
28.4.2021	Introduction to congruence's
29.4.2021	Theorems based on congruences
30.4.2021	Linear congruence & Theorems
01.5.2021	Examples and exercise problem
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test ch-2
04.5.2021	Fermat's theorems CH-3
05.5.2021	Wilson's Theorems
06.5.2021	Example & Exercise problem
07.5.2021	Chinese remainder Theorems
08.5.2021	<i>Exercise</i>
9.5.2021	<b>SUNDAY</b>
10.5.2021	Introduction to Ch-4
11.5.2021	Reduced Residue System modulo m
12.5.2021	Example
13.5.2021	Exercise
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Euler's generalization of Fermat's theorem
16.5.2021	<b>SUNDAY</b>
17.5.2021	Example & Exercise
18.5.2021	Some functions on Number Theory Ch-5
19.5.2021	Example& Exercise
20.5.2021	Fermat theorem based questions
21.5.2021	Doubt Class
22.5.2021	Revision of ch-4 &5

23.5.2021	<b>SUNDAY</b>
24.5.2021	Quadratic Residues
25.5.2021	Example & Exercise
26.5.2021	Legendre symbols and Gauss reciprocity law
27.5.2021	Example & Exercise
28.5.2021	Doubt Class
29.5.2021	Assignment of Ch-6
30.5.2021	<b>SUNDAY</b>
31.5.2021	Introduction to Trigonometry
01.6.2021	De Moiré's theorem
02.6.2021	Examples
03.6.2021	Exercise
4.6.2021	Application of DeMoivre's theorems
5.6.2021	Questions related to it
6.6..2021	<b>SUNDAY</b>
7.6.2021	Doubts
8.6..2021	Test
9.6.2021	Expansion of $\cos n \alpha$ and $\sin n \alpha$
10.6.2021	Expansion of $\tan$
11.6.2021	Exercise & questions
12.6.2021	Formation of equations
13.6.2021	<b>SUNDAY</b>
14.6..2021	Introduction of exponential function of complex variables
15.6.2021	Theorems
16.6.2021	Properties of exponential functions
17.6.2021	<i>Example</i>
18.6.2021	Exercise
19.6.2021	Circular functions of complex variables
20.6.2021	<b>SUNDAY</b>
21.6.2021	Trigonometry formulae for complex quantities
22..6.2021	Examples & Exercise
23.6.2021	Doubt Class
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Hyperbolic functions
26.6.2021	<i>Example &amp; Exercise</i>
27.6.2021	<b>SUNDAY</b>
28.6.2021	Inverse circular and Hyperbolic functions
29.6.2021	Properties of it
30.6.2021	Exercise
01.7.2021	Gregory's series & Exercise
02.7.2021	Doubt Class
03.7.2021	Assignment of Exercise of Ch-7,8,9,10
4.7.2021	<b>SUNDAY</b>
5.7.2021	Introduction to Complete Residue System
6.7..2021	Example & Exercise
7.7.2021	Doubt Class
8.7..2021	Revision of Ch-4&5
9.7.2021	Introduction to Summation Ch-12
10.7.2021	Expansion of Sine & Cosine in terms of A.p
11.7.2021	<b>SUNDAY</b>

12.7.2021	Examples
13.7.2021	Exercise
14.7..2021	Doubt Class
15.7.2021	Exercise 12.2
16.7.2021	Exercise & Examples Discussed
17.7.2021	Assignment ch-12
18.7.2021	<b>SUNDAY</b>
19.7.2021	Revision of Unit IV
20.7.2021	Test
21.7.2021	EID
22..7.2021	Question Paper 2018
23.7.2021	Question Paper 2019
24.7.2021	Question Paper 2020
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision of UnitI
27.6 2021	Revision of UnitII
28.7.2021	Revision of UnitIII



**Name of the Assistant/Associate Professor: Ms.Manisha Suri**  
**Class and Section: B.Sc. (N.M)/B.A 4<sup>th</sup>Semester, Sec A & B**  
**Subject: Special Function & Integral Transforms**  
**Subject Code:BM:242**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 6**

Date	Topic to be Covered
12.4.2021	Introduction to power series and its convergence
13.4.2021	Interval of convergence
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Examples & Exercise problems
16.4.2021	Doubt class
17.4.2021	<u>Various operation on power series</u>
18.4.2021	<b>SUNDAY</b>
19.4.2021	Analytic Function
20.4.2021	Existence of power series solution and the or em snit
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Solution of differential equations in series about an ordinary point other than zero
23.4.2021	Fresenius method
24.4.2021	Example and Exercise problems
25.4.2021	<b>SUNDAY</b>
26.4.2021	Doubt class
27.4.2021	Solution of differential equations when roots of indicial equations Are equal
28.4.2021	Example and Exercise questions
29.4.2021	Solution of indicial equations when roots are un-equal
30.4.2021	Exercise and Example question
01.5.2021	Solution of indicial equations when roots are un-equal and differ by an integer
02.5.2021	<b>SUNDAY</b>
03.5.2021	Example and Exercise questions
04.5.2021	Doubt class
05.5.2021	Introduction to beta function & its property ch-2
06.5.2021	Bessel's equations and it's solution
07.5.2021	Example and Exercise questions
08.5.2021	Representation of Bessel's function in integral form
9.5.2021	<b>SUNDAY</b>
10.5.2021	Exercise and Example problem
11.5.2021	Orthogonally relation to Bessel's function
12.5.2021	Revision/presentation of formulas
13.5.2021	Test Of CH-1 &2
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Introduction to legendre's equations and its solution CH-3
16.5.2021	<b>SUNDAY</b>
17.5.2021	Rodrigue's formula and derivation of legendre's polynomial from it.
18.5.2021	Generating Function
19.5.2021	Recurrence Relation
20.5.2021	Example and Exercise problems
21.5.2021	Doubt class
22.5.2021	Orthogonality of legendre's polynomial

23.5.2021	<b>SUNDAY</b>
24.5.2021	Examples and Exercise questions
25.5.2021	Assignment of Ch-3
26.5.2021	Introduction to Hermite's equations and it's solution CH-4
27.5.2021	Generating Function for Hermite's polynomial
28.5.2021	Examples and Exercise questions
29.5.2021	Rodrigue's formula and derivation of Hermite's polynomial from It
30.5.2021	<b>SUNDAY</b>
31.5.2021	Recurrence Relation/orthogonal l properties
01.6.2021	Exercise and Example problem
02.6.2021	Doubt class
03.6.2021	Introduction to Laplace transformationch-5
04.6.2021	Property of Laplace transform
05.6.2021	Example and Exercise questions
06.6.2021	<b>SUNDAY</b>
07.6.2021	Important results of Laplace transform
08.6.2021	Shifting theorem
09.6.2021	Examples and Exercise problems
10.6.2021	Laplace transform of derivative and its problems
11.6.2021	Laplace transform of integrals and its problems
12.6.2021	Laplace transform of some special function
13.6.2021	<b>SUNDAY</b>
14.6..2021	Example and Exercise questions
15.6.2021	Doubts class
16.6.2021	TEST of Ch-5
17.6.2021	IntroductiontoInverseLaplacetransformch-6
18.6.2021	Example and Exercise questions
19.6.2021	Convolution theorem
20.6.2021	<b>SUNDAY</b>
21.6.2021	Solution of differential equations by transform method
22..6.2021	Examples and Exercise questions
23.6.2021	Doubt class
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	<b>Testofch-6</b>
26.6.2021	Application of Laplace transformation to integral equationsch-7
27.6.2021	<b>SUNDAY</b>
28.6.2021	Example and Exercise
29.6.2021	Doubt class
30.6.2021	SolutionofdifferentialsbyLaplacetransformationch-8
01.7.2021	Solution of simultaneous Equation
02.7.2021	Introduction to fourier transform and its properties ch-9 &Inverse Fourier transform
03.7.2021	Convolution theorem for Fourier transform
4.7.2021	<b>SUNDAY</b>
5.7.2021	Examples and Exercise problems
6.7..2021	FouriertransformofderivativeandrelationbetweenFourierandLaplacetransform
	Example and Exercise problems
7.7.2021	Doubt Class of Ch-8
8.7..2021	Fourier sine transform & Example and Exercise questions
9.7.2021	Fourier cosine transform & Example and Exercise questions

10.7.2021	Solution of differential equations by Fourier Transform Ch-10
11.7.2021	<b>SUNDAY</b>
12.7.2021	Examples & Exercise discussed
13.7.2021	Doubt Class
14.7.2021	Revision of Ch-9,10
15.7.2021	Test of Ch-9&8
16.7.2021	Revision of Unit –I
17.7.2021	Revision of Unit –II
18.7.2021	<b>SUNDAY</b>
19.7.2021	Revision of Unit –III
20.7.2021	Revision of Unit –IV
21.7.2021	<b>EID</b>
22.7.2021	Question Paper 2018
23.7.2021	Question Paper 2019
24.7.2021	Question Paper 2020

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**Name of the Assistant/Associate Professor: Ms. Manisha Suri**  
**Class and Section: B.Sc.(Non-Med)/B.A. 6<sup>th</sup>Semester, Section-A&B**  
**Subject: Linear Algebra**  
**Subject Code :BM: 362**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 6**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to syllabus
13.4.2021	Introduction to Vector space
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Properties of Vector Space
16.4.2021	Example and Exercise problems
17.4.2021	Subspace and theorems based on it
18.4.2021	<b>SUNDAY</b>
19.4.2021	Linear dependence and Independence of vectors
20.4.2021	Theorems of L.I and Independence
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Examples and Exercise problems
23.4.2021	Doubt class
24.4.2021	Fine tely generated vector space and theorems based on it
25.4.2021	<b>SUNDAY</b>
26.4.2021	Examples and Exercise problems
27.4.2021	Basis of Vector Space
28.4.2021	Maximal LI set and minimal generating set
29.4.2021	Example and Exercise problems
30.4.2021	Theorems
01.5.2021	Identical space and theorems
02.5.2021	<b>SUNDAY</b>
03.5.2021	Examples and Exercise problems
04.5.2021	Introduction to quotient space
05.5.2021	Examples and Exercise problems
06.5.2021	Testofch-1
07.5.2021	Introduction to linear transformation
08.5.2021	Vector space isomorphism
09.5.2021	<b>SUNDAY</b>
10.5.2021	Examples And Exercise questions
11.5.2021	Introduction to rank and nullity
12.5.2021	Theorems based on it
13.5.2021	Examples and Exercise problems
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Algebra of linear transformation
16.5.2021	<b>SUNDAY</b>
17.5.2021	Examples and Exercise problems
18.5.2021	Singular and non singular transformation
19.5.2021	Theorems based on it
20.5.2021	Example and Exercise problems
21.5.2021	Doubt class
22.5.2021	Invertible linear transformation

23.5.2021	<b>SUNDAY</b>
24.5.2021	Example and Exercise problems
25.5.2021	Theorems based on it
26.5.2021	Change of basis
27.5.2021	Rank Nullity theorem
28.5.2021	Example and Exercise problems
29.5.2021	Revision of Unit 2
30.5.2021	<b>SUNDAY</b>
31.5.2021	Test of ch-6,7
01.6.2021	Introduction to Dual space
02.6.2021	Theorems based on it
03.6.2021	Examples and Exercise based on it
04.6.2021	Bidual or double dual space
05.6.2021	Theorems based on it
06.6.2021	<b>SUNDAY</b>
07.6.2021	Theorems
08.6.2021	Examples and Exercise problems
09.6.2021	Doubt class
10.6.2021	Revision of dual space Ch-8
11.6.2021	Assignment
12.6.2021	Introduction to eigen values and eigenvectors Ch-9
13.6.2021	<b>SUNDAY</b>
14.6..2021	<i>Theorems</i>
15.6.2021	Examples and Exercise problems
16.6.2021	Diagonalization
17.6.2021	Examples and Exercise problems
18.6.2021	Minimal polynomial& Theorems based on it
19.6.2021	Theorems based on it
20.6.2021	<b>SUNDAY</b>
21.6.2021	Example and Exercise problems
22..6.2021	Doubts class
23.6.2021	Revision of eigen values and eigen vectors
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Test of Ch-9
26.6 2021	Introduction to inner product space
27.6.2021	<b>SUNDAY</b>
28.6.2021	Norms and related theorems
29.6.2021	Theorem and Example
30.6.2021	Normed linear space
01.7.2021	Examples and Exercise problems
02.7.2021	Bessel' sine quality
03.7.2021	Example and Exercise questions
4.7.2021	<b>SUNDAY</b>
5.7.2021	Theorems
6.7..2021	Test of Ch-10
7.7.2021	Introduction to linear operation on IPS CH-11 &Theorems based on it
8.7..2021	Example and Exercise problems
9.7.2021	Introduction to Self ad joint operator theorems
10.7.2021	Theorems based on It
11.7.2021	<b>SUNDAY</b>

12.7.2021	Examples Discussed
13.7.2021	<b>Exercise11.1</b>
14.7..2021	Revisionofch-11
15.7.2021	Revision of UNIT I,II
16.7.2021	Revision of UNIT III,IV



Name of the Assistant/Associate Professor: Ms. Manisha Suri

Class and Section: M.Sc-2<sup>nd</sup> Semester

Subject: Partial Differential Equation(PDE)

Mode of Teaching: Online &Offline

Lectures Per Week: 6

Date	Topic to be Covered
12.4.2021	Introduction of the Syllabus
13.4.2021	Method of separation of variables to solve boundary value problem associated with one dimensional heat equation
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Steady state temperature in a rectangular plate
16.4.2021	Revision
17.4.2021	Circular Disc
18.4.2021	<b>SUNDAY</b>
19.4.2021	Semi infinite plate
20.4.2021	The heat equation in semi infinite and infinite regions
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Solution of three dimensional heat equation
23.4.2021	Heat equations
24.4.2021	Wave equation in Cartesian, cylindrical and spherical coordinates
25.4.2021	<b>SUNDAY</b>
26.4.2021	Revision
27.4.2021	Revision and doubt session
28.4.2021	Method of separation of variables to solve B.V. P associated with motion of a vibrating string
29.4.2021	Solution of wave equation for semi-infinite and infinite strings
30.4.2021	numerical
01.5.2021	Assignment
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test
04.5.2021	Classification of PDE
05.5.2021	Transport equation initial value problem
06.5.2021	Non-homogeneous equations
07.5.2021	Laplace equation fundamental solution
08.5.2021	Revision
9.5.2021	<b>SUNDAY</b>
10.5.2021	numerical
11.5.2021	Doubt session
12.5.2021	Revision
13.5.2021	Mean value formula
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Properties of harmonic function
16.5.2021	<b>SUNDAY</b>
17.5.2021	Revision
18.5.2021	Assignment
19.5.2021	Green function
20.5.2021	Corrector Function
21.5.2021	Energy method

22.5.2021	Fundamental solution of heat equation
23.5.2021	<b>SUNDAY</b>
24.5.2021	Energy method for heat equation & Uniqueness
25.5.2021	Cauchy Problem
26.5.2021	Numerical
27.5.2021	Revision
28.5.2021	Revision
29.5.2021	Doubt Class
30.5.2021	<b>SUNDAY</b>
31.5.2021	Alembert Formula
01.6.2021	Integral solution of Heat Equation
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Non –Homogenous Heat Equation
10.6.2021	Revision
11.6.2021	Revision
12.6.2021	Test
13.6.2021	<b>SUNDAY</b>
14.6.2021	Introduction to Wave Equation
15.6.2021	Wave equation–solution by spherical means
16.6.2021	Non-homogeneous equations
17.6.2021	Revision
18.6.2021	Doubt Class
19.6.2021	Revision
20.6.2021	<b>SUNDAY</b>
21.6.2021	Revision
22.6.2021	Revision
23.6.2021	Revision
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Doubt Class
26.6.2021	Strong Maximum Principal
27.6.2021	<b>SUNDAY</b>
28.6.2021	Energy method for wave equation
29.6.2021	Kirchoff's Formula
30.6.2021	Mean value formula
01.7.2021	Properties of solutions
02.7.2021	Numerical
03.7.2021	Revision
04.7.2021	<b>SUNDAY</b>
05.7.2021	Doubt Class
06.7.2021	Doubt Class
07.7.2021	Doubt Class
08.7.2021	Assignment
09.7.2021	Test
10.7.2021	Introduction to Unit –IV

11.7.2021	<b>SUNDAY</b>
12.7.2021	Characteristics equation of Non linear PDE
13.7.2021	Examples
14.7.2021	Characteristics equation of linear PDE
15.7.2021	Examples
16.7.2021	Characteristics equation of Quasilinear and Fully linear
17.7.2021	Examples
18.7.2021	<b>SUNDAY</b>
19.7.2021	Charpit Method
20.7.2021	Forms of Non Linear PDE
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Jacobi Method
23.7.2021	Examples of all three methods
24.7.2021	Exercise
25.7.2021	<b>SUNDAY</b>
26.7.2021	Doubt Class
27.6.2021	Doubt Class
28.7.2021	Assignment of exercise
29.7.2021	Hamilton Jacobi equation
30.7.2021	Calculus of variation
31.7.2021	Derivation of HJE
01.8.2021	<b>SUNDAY</b>
02.8.2021	Euler –Langrange methods
03.8.2021	Legendre transform
04.8.2021	Relation between Hamilton and Legendre
05.8.2021	Numerical
06.8.2021	Examples
07.8.2021	Derivation of Hamilton ODE
08.8.2021	<b>SUNDAY</b>
09.8.2021	HOP Lax Formula
10.8.2021	Theorem based on Hop lax Formula
11.8.2021	Semi concavity
12.8.2021	Theorems
13.8.2021	Uniqueness Theorem
14.8.2021	Weak Solution
15.8.2021	<b>SUNDAY</b>
16.8.2021	Doubts
17.8.2021	Doubt Class
18.8.2021	Test of Unit -IV
19.8.2021	Revision of Unit I
20.8.2021	Mohr ram
21.8.2021	Revision of Unit II
22.8.2021	<b>SUNDAY</b>
23.8.2021	Revision of Unit III
24.8.2021	Revision of Unit IV

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**Name of the Assistant/Associate Professor: Dr. Vinita Gupta**  
**Class and Section: M Sc. Chemistry 2<sup>nd</sup> Semester**  
**Subject: Inorganic Chemistry Theory & Environmental Chemistry**  
**Mode of Teaching: Online & Offline**  
**Lectures Per Week: 7**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
24.5.2021	CFT
25.5.2021	Splitting of d-orbitals Environmental Toxicology
26.5.2021	Splitting in sp and tetrahedral complexes
27.5.2021	Factors
28.5.2021	Distribution of d-electrons in t <sub>2g</sub> & e <sub>g</sub> in O.C.
29.5.2021	Applications of CFT
30.5.2021	<b>SUNDAY</b>
31.5.2021	John-Teller distortion
01.6.2021	Applications of CFT
02.6.2021	John-Teller distortion
03.6.2021	John-Teller distortion
4.6.2021	CFSE
5.6.2021	CFSE
6.6..2021	<b>SUNDAY</b>
7.6.2021	Minamata Incident
8.6.2021 to 30.6.2021	University exams
01.7.2021	MOT Energy order of orbitals Bonding in OC Assignment-1
02.7.2021	Spectrochemical series Magnetic Properties of electron
03.7.2021	Magnetic Properties of electron
04.7.2021	<b>SUNDAY</b>
05.7.2021	Gouy's Method
06.7.2021	Properties of free electron Bhopal gas incident
07.7.2021	Spin-cross over Assignment-2
08.7.2021	Spin magnetic coupling
09.7.2021	MOT of Tetrahedral and square planar complexes
10.7.2021	Boranes
11.7.2021	<b>SUNDAY</b>
12.7.2021	Diboranes
13.7.2021	Structure of Boranes Chernobyl disaster
14.7.2021	Boranes
15.7.2021	Carboranes
16.7.2021	Carbonyl compounds
17.7.2021	TEC
18.7.2021	<b>SUNDAY</b>
19.7.2021	Spectroscopic studies of Carbonyl compounds
20.7.2021	Contd.
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Metal Nitrosyls Assignment-3

23.7.2021	Contd.
24.7.2021	Nitrogenyl Complexes
25.7.2021	<b>SUNDAY</b>
26.7.2021	Dinitrogen as a ligand
27.6.2021	Dioxygen as a ligand      Biodegradability
28.7.2021	Dioxygen as a ligand
29.7.2021	Tertiary phosphine as a ligand
30.7.2021	Contd.
31.7.2021	Presentation
01.8.2021	<b>SUNDAY</b>
02.8.2021	Spectroscopic ground states
03.8.2021	Contd. Assignment-4
04.8.2021	Trem symbols
05.8.2021	Hole formation
06.8.2021	Correlation diagrams
07.8.2021	Contd.      TMI accident
08.8..2021	<b>SUNDAY</b>
09.8.2021	T.S.Diagrams
10.8.2021	Contd.
11.8.2021	Contd.
12.8.2021	Contd.
13.8.2021	Contd.      C.T. Spectra
14.8.2021	Sevaso disaster      Chemical solution to environmental problems
15.8.2021	<b>SUNDAY</b>
16.8.2021	Molecular addition compound
17.8.2021	Electronic spectra
18.8.2021	Principles of decomposition
19.8.2021	Better industrial processes
20.8.2021	<b>Mohrram</b> University practical exam of 1 <sup>st</sup> Semester
21.8.2021	Leave
22.8.2021	<b>SUNDAY</b>
23.8.2021	Practical viva practice
24.8.2021	University practical exam of 2 <sup>nd</sup> semester



Name of the Assistant/Associate Professor: Dr. Annu Kalra

Class and Section: M.Sc. Chemistry 4<sup>th</sup> semester

Subject: Inorganic special IV, 17CHE24GA1

Mode of Teaching: Online &Offline

Lectures Per Week: 24(8 theory+ 16 practical)

Date	Topic to be Covered
12.4.2021	Introduction of organometallic compounds
13.4.2021	Classification on the basis of bond type: covalent
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Ionic organometallic compounds
16.4.2021	Electron deficient organometallic compounds
17.4.2021	Cluster organometallic compounds
18.4.2021	<b>SUNDAY</b>
19.4.2021	Test from the above topics
20.4.2021	Alkyls and aryls of transition metals: types
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Routes of synthesis
23.4.2021	Stability of transition metal alkyl and aryl compounds
24.4.2021	Stability (contd.)
25.4.2021	<b>SUNDAY</b>
26.4.2021	Decomposition pathways
27.4.2021	Decomposition pathways(contd.)
28.4.2021	Organocopper in organic synthesis
29.4.2021	Doubts from above topics
30.4.2021	Test from above topics
01.5.2021	Transition metal pi complexes with unsaturated molecules-alkenes
02.5.2021	<b>SUNDAY</b>
03.5.2021	Transition metal pi complexes with unsaturated molecules-alkenes(contd.)
04.5.2021	Transition metal pi complexes with alkynes
05.5.2021	Transition metal pi complexes with alkynes(contd.)
06.5.2021	Transition metal pi complexes with allyls
07.5.2021	Transition metal pi complexes with allyls(contd.)
08.5.2021	Transition metal pi complexes with dienyls(metallocenes)
9.5.2021	<b>SUNDAY</b>
10.5.2021	Transition metal pi complexes with dienyls (contd.)
11.5.2021	Preparation of above compounds
12.5.2021	Preparation (contd.)
13.5.2021	Properties of above compounds
14.5.2021	Properties (contd.)
15.5.2021	Doubts from above topics
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test from above topics
18.5.2021	Nature of bonding in above types of complexes
19.5.2021	Nature of bonding in above types of complexes (contd.)
20.5.2021	Structural features
21.5.2021	Structural features (contd.)
22.5.2021	Reactions related to nucleophilic attack on ligands

23.5.2021	<b>SUNDAY</b>
24.5.2021	Reactions related to electrophilic attack on ligands
25.5.2021	Reactions (contd.)
26.5.2021	Reactions related to organic synthesis
27.5.2021	Reactions related to organic synthesis (contd.)
28.5.2021	Doubts from above topics
29.5.2021	Revision
30.5.2021	<b>SUNDAY</b>
31.5.2021	Test from above topics
01.6.2021	Transition metal carbene complexes: Fischer type
02.6.2021	Transition metal carbene complexes: Fischer type (contd.)
03.6.2021	Transition metal carbene complexes: Schrock type
4.6.2021	Transition metal carbene complexes: Schrock type (contd.)
5.6.2021	Synthesis of fischer type complexes
6.6..2021	<b>SUNDAY</b>
7.6.2021	Synthesis of Schrock type complexes
8.6..2021	Reactions of Fischer carbene complexes
9.6.2021	Reactions of Schrock carbene complexes
10.6.2021	Structure and bonding in Fischer carbene complexes
11.6.2021	Structure and bonding in Schrock carbene complexes
12.6.2021	Transition metal carbyne complexes
13.6.2021	<b>SUNDAY</b>
14.6..2021	Transition metal carbyne complexes(contd.)
15.6.2021	Synthesis of transition metal carbyne complexes
16.6.2021	Synthesis (contd.)
17.6.2021	Reactions of transition metal carbyne complexes
18.6.2021	Reactions (contd.)
19.6.2021	Structure and bonding in transition metal carbyne complexes
20.6.2021	<b>SUNDAY</b>
21.6.2021	Structure and bonding in transition metal carbyne complexes (contd.)
22.6.2021	Doubts from the unit
23.6.2021	Test from the above unit
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Concept of Fluxionality
26.6.2021	Dynamic equilibria in acyclic alkenes
27.6.2021	<b>SUNDAY</b>
28.6.2021	Dynamic equilibria in sigma bonded cyclic alkenes
29.6.2021	Dynamic equilibria in pi bonded cyclic alkenes
30.6.2021	Rotation of ligands on metals
01.7.2021	Rotation of ligands on metals (contd.)
02.7.2021	Ligand scrambling on metals
03.7.2021	Zeigler Natta polymerization
04.7.2021	<b>SUNDAY</b>
05.7.2021	Homogeneous catalytic hydrogenation
06.7.2021	Alkene hydrogenation
07.7.2021	Wilkinson Catalyst
08.7.2021	Wilkinson catalyst (contd.)
09.7.2021	Oxidation of olefins-wacker's process
10.7.2021	Hydroformylation of olefins
11.7.2021	<b>SUNDAY</b>

12.7.2021	The Oxo process
13.7.2021	Revision of the above unit
14.7..2021	Revision of Unit A
15.7.2021	Revision of Unit B
16.7.2021	Revision of Unit C

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**Name of the Assistant/Associate Professor: Dr. Annu Kalra**  
**Class and Section: M.Sc. Chemistry, 2<sup>nd</sup> semester**  
**Subject: Environmental Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week:**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	
25.5.2021	
26.5.2021	Chemical composition of water bodies
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	
31.5.2021	
01.6.2021	
02.6.2021	Hydrological cycle and complexation in natural and waste water
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	
08.6.2021 to 30.6.2021	University exam
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Microbially mediated redox reactions
8.7.2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	Water pollution (inorganic and organic pesticides) and (industrial and radioactive materials)
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>

26.7.2021	
27.6.2021	
28.7.2021	Oil spills and oil pollutants ;Eutrophication
29.7.2021	
30.7.2021	
31.7.2021	
01.8.2021	<b>SUNDAY</b>
02.8.2021	
03.8.2021	
04.8.2021	Acid mine drainage
05.8.2021	
06.8.2021	
07.8.2021	
08.8.2021	<b>SUNDAY</b>
09.8.2021	
10.8.2021	
11.8.2021	Domestic and Industrial waste water treatment
12.8.2021	
13.8.2021	
14.8..2021	
15.8.2021	<b>SUNDAY</b>
16.8.2021	
17.8.2021	
18.8.2021	Noise Pollution : sources, effects and control measures
19.8.2021	
20.8.2021	Mohrram
21.8.2021	
22.8.2021	<b>SUNDAY</b>
23.8.2021	
24.8.2021	

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**Name of the Assistant/Associate Professor: Ms. Rajni**  
**Class and Section: M.Sc. Chemistry-2<sup>nd</sup> Semester**  
**Subject: General Spectroscopy**  
**Mode of Teaching: Online & Offline**  
**Lectures Per Week: 24**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
24.5.2021	
25.5.2021	
26.5.2021	NMR Spectra-Introduction
27.5.2021	
28.5.2021	
29.5.2021	Spin active nuclei, chemical shift
30.5.2021	
31.5.2021	
01.6.2021	
02.6.2021	Shielding and Deshielding
03.6.2021	
04.6.2021	
05.6.2021	Internal Standard, spin- spin coupling
06.6.2021	<b>SUNDAY</b>
07.6.2021	
08.6.2021	University exam
09.6.2021	University exam
10.6.2021	University exam
11.6.2021	University exam
12.6.2021	University exam
13.6.2021	<b>SUNDAY</b>
14.6..2021	University exam
15.6.2021 to30.6.2021	University Examination
01.7.2021	
02.7.2021	
03.7.2021	Equivalent and Non equivalent protons, Factors affecting chemical shift
04.7.2021	<b>SUNDAY</b>
05.7.2021	
06.7.2021	
07.7.2021	Effect of changing solvent on chemical shift, Effect of hydrogen bonding on chemical shift
08.7.2021	
09.7.2021	
10.7.2021	Test of chemical shift and factors affecting chemical shift and ASSIGNMENT given on Chemical shift, shielding and deshielding protons, spin-spin coupling
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	Principle of UV spectroscopy
15.7.2021	

16.7.2021	
17.7.2021	Instrumentation of UV spectroscopy
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	
24.7.2021	Application of UV spectroscopy in structure elucidation of organic compounds
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	Revision of UV spectroscopy
29.7.2021	
30.7.2021	
31.7.2021	Test of UV spectroscopy
01.8.2021	<b>SUNDAY</b>
02.8.2021	
03.8.2021	
04.8.2021	Principle of IR spectroscopy
05.8.2021	
06.8.2021	
07.8.2021	Instrumentation of IR spectroscopy
08.8.2021	<b>SUNDAY</b>
09.8.2021	
10.8.2021	
11.8.2021	Application of IR spectroscopy in structure elucidation of organic compounds
12.8.2021	
13.8.2021	
14.8.2021	Revision of application of IR spectroscopy
15.8.2021	<b>SUNDAY</b>
16.8.2021	
17.8.2021	
18.8.2021	Test of application of IR spectroscopy
19.8.2021	
20.8.2021	Mohrram
21.8.2021	Doubt class and Revision
22.8.2021	<b>SUNDAY</b>
23.8.2021	
24.8.2021	

**Name of the Assistant/Associate Professor: Ms. RAJNI**

**Class and Section: M.Sc. Chemistry**  
**Subject: Organic Chemistry, 16CHE22CL3**  
**Mode of Teaching: Online &Offline- Online**  
**Lectures Per Week: 24**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	Introduction of Aliphatic Nucleophilic Substitution Reactions
25.5.2021	SN2, SN1, Mixed SN1 and SN2, SNi
26.5.2021	SN1', SN2', SNi', SET Mechanism
27.5.2021	Neighbouring Group Participation by pi and sigma bonds
28.5.2021	Anchimeric Assistance
29.5.2021	Test of Aliphatic Nucleophilic Substitution Reactions
30.5.2021	Classical and Non Classical Carbocation, Phenonium ion, Common Carbocation Rearrangement
31.5.2021	Application of NMR Spectroscopy in the detection of carbocation
01.6.2021	Reactivity and factors affecting, Assignment on NGP
02.6.2021	Ambident nucleophile, Regioselectivity
03.6.2021	Phase transfer catalysis
04.6.2021	Revision of ambident nucleophile, regioselectivity
05.6.2021	Aliphatic electrophilic substitution- Unimolecular mechanism-SE1
06.6.2021	<b>SUNDAY</b>
07.6.2021	Bimolecular mechanism-SE2 and SEi, Electrophilic substitution accompanied by double bond shifts
08.6.2021	University exam
09.6.2021	University exam
10.6.2021	University exam
11.6.2021	University exam
12.6.2021	University exam
13.6.2021	<b>SUNDAY</b>
14.6.2021	University exam
15.6.2021 to 30.6.2021	University Examination
01.7.2021	Effects of substrate, leaving group, solvent polarity on the reactivity
02.7.2021	Aromatic electrophilic substitution – Arenium ion mechanism
03.7.2021	Orientation and Reactivity in monosubstituted benzenes, Energy Profile diagrams
04.7.2021	<b>SUNDAY</b>
05.7.2021	The ortho/para ratio, ipso attack, Orientation in other ring system, Quantitative treatment of reactivity in substrate and electrophile
06.7.2021	Diazonium coupling, Vilsmeier reaction, Gattermann-Koch reaction
07.7.2021	Aromatic Nucleophilic Substitution-ArSN1, ArSN2
08.7.2021	Benzynes and SRN1 mechanisms
09.7.2021	Reactivity-effect of substrate structure, attacking nucleophile, leaving group
10.7.2021	Von Richter rearrangement, Sommelet-Hauser rearrangement, Smiles rearrangement
11.7.2021	<b>SUNDAY</b>
12.7.2021	Introduction of Elimination Reactions
13.7.2021	E2-Introduction and direction of elimination ASSIGNMENT on topic Aromatic electrophilic substitution- Orientation and reactivity in monosubstituted benzene, other ring system, ortho/para ratio
14.7.2021	Stereochemistry of the E2 Reaction, E1 Regioselectivity and E1- Rearrangement
15.7.2021	Test of E2 Mechanism
16.7.2021	E1cb mechanism and Pyrolysis of esters, xanthates, and cope rearrangement

17.7.2021	Pyrolysis Elimination of Sulphoxides and Selenoxide
18.7.2021	<b>SUNDAY</b>
19.7.2021	Addition involving Carbon- Carbon multiple bonds- Addition reaction involving electrophile, nucleophile and free radicals
20.7.2021	Addition involving Carbon- Carbon multiple bonds- Addition reaction involving nucleophile and free radicals
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Regioselectivity and Chemoselectivity, orientation and reactivity
23.7.2021	Addition to cyclopropane ring,
24.7.2021	Hydrogenation of double and triple bonds, Hydrogenation of aromatic rings
25.7.2021	<b>SUNDAY</b>
26.7.2021	Hydroboration Oxidation
27.6.2021	, Michael reaction
28.7.2021	Test of Hydroboration,
29.7.2021	Sharpless asymmetric epoxidation
30.7.2021	TEST
31.7.2021	<b>Addition to Carbon-Hetero Multiple Bonds-</b> Reduction of carbonyl compounds by LiAlH <sub>4</sub>
01.8.2021	<b>SUNDAY</b>
02.8.2021	Reduction of carbonyl compounds by Borane
03.8.2021	ASSIGNMENT
04.8.2021	Nucleophilic addition reaction of carbonyl compounds with Grignard Reagent
05.8.2021	Addition by Organolithium
06.8.2021	Organozinc to carbonyl and unsaturated carbonyl compounds
07.8.2021	Wittig Reaction
08.8.2021	<b>SUNDAY</b>
09.8.2021	Aldol Reaction
10.8.2021	Aldol Reaction cont.
11.8.2021	Knoevenagel Reaction, Claisen Reaction
12.8.2021	Mannich, Benzoin Reaction
13.8.2021	Perkin, Stobbe Reaction est of Name Reactions
14.8.2021	Hydrolysis of Esters and Amides
15.8.2021	<b>SUNDAY</b>
16.8.2021	Ammonolysis of Esters
17.8.2021	Revision of Section -A
18.8.2021	Revision of Section -B
19.8.2021	Revision of Section -C
20.8.2021	Mohrram
21.8.2021	Revision of Section -D
22.8.2021	<b>SUNDAY</b>
23.8.2021	DOUDT CLASS
24.8.2021	DOUDT CLASS



**Name of the Assistant/Associate Professor: Ms. Rajni**

**Class and Section: B.Sc. Biotech -2<sup>nd</sup> Semester**

**Subject: Organic Chemistry (BT-206)**

**Mode of Teaching: Online**

**Lectures Per Week: Two**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Nomenclature of alkenes, , mechanisms of dehydration of alcohols and de-hydro halogenation of alkyl halides,.
13.4.2021	The Saytzeff rule, Hofmann elimination
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	physical properties and relative stabilities of alkenes.
20.4.2021	Chemical reactions of alkenes mechanisms involved in hydrogenation
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	electrophilic and free radical additions, Markownikoff's rule And assignment given on alkenes
27.4.2021	hydroboration–oxidation, oxymercurationreduction, ozonolysis
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	hydration, hydroxylation and oxidation with $\text{KMnO}_4$ ,
04.5.2021	Revision of section – A
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Nomenclature of benzene derivatives:. Aromatic nucleus and side chain.
11.5.2021	Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test of section –A
18.5.2021	aromatic, anti - aromatic and non - aromatic compounds and assignment given on Aromaticity
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Aromatic electrophilic substitution general pattern of the mechanism, mechansim of nitration
25.5.2021	Halogenation, sulphonation, and Friedel-Crafts reaction
26.5.2021	

27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Energy profile diagrams. Activating , deactivating substituents and orientation.
01.6.2021	Revision of section-B
02.6.2021	
03.6.2021	
04.6.2021	
05.6.2021	
06.6.2021	<b>SUNDAY</b>
07.6.2021	Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene
08.6.2021	Chemical reactions 1,2 and 1,4 additions and Diels-Alder reaction
09.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	Nomenclature, structure and bonding in alkynes. Methods of formation
15.6.2021	Chemical reactions of alkynes, acidity of alkynes and assignment given on Dienes
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Test of Dienes
22.6.2021	Mechanism of electrophilic and nucleophilic addition reactions
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	hydroboration-oxidation of alkynes and Revision of Section-C
29.6.2021	Nomenclature and classes of alkyl halides, methods of formation, chemical reactions
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
04.7.2021	<b>SUNDAY</b>
05.7.2021	Mechanism&stereochemistry of nucleophilic substitution rxn of alkyl halides S N 2
06.7.2021	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides SN1 reactions with energy profile diagrams
07.7.2021	
08.7.2021	
09.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Test of Alkynes
13.7.2021	Methods of formation and reactions of aryl halides, The additionelimination

14.7.2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	elimination-addition mechanisms of nucleophilic aromatic substitution reactions
20.7.2021	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides. And assignment given on aryl halides
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision pf Section-D
27.6 2021	Revision
28.7.2021	Revision



**Name of the Assistant/Associate Professor: Ms. Rajni**

**Class and Section: B.Sc. Biotech VI Semester (BT-606)**

**Subject: Organic Chemistry**

**Mode of Teaching: Online**

**Lectures Per Week: Two**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan.
16.4.2021	

17.4.2021	Introduction: Molecular orbital picture and aromatic characteristics of thiophene and pyridine
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Methods of synthesis
23.4.2021	
24.4.2021	chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Mechanism of nucleophilic substitution reactions in pyridine derivatives
30.4.2021	
01.5.2021	Comparison of basicity
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Revision & assignment given on pyrrole and Furan
07.5.2021	
08.5.2021	Introduction to condensed five and six- membered hetero cycles
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Test
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Preparation of indole, quinoline and isoquinoline by Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Reactions of indole, quinoline and isoquinoline
21.5.2021	
22.5.2021	Mechanism of electrophilic substitution reactions of quinoline and isoquinoline
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Revision of Heterocyclic compounds II
28.5.2021	
29.5.2021	Nomenclature, structural features, Methods of formation of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	

03.6.2021	Chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulpha guanidine
04.6.2021	
05.6.2021	Synthetic detergents alkyl and aryl sulphonates.
06.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Test of Heterocyclic compounds
11.6.2021	
12.6.2021	Acidity of $\alpha$ -hydrogens, alkylation of diethyl malonate and ethyl Acetoacetate and the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Addition or chain-growth polymerization. Free radical vinyl Polymerization And assignment given on Enolates
18.6.2021	
19.6.2021	Ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	Condensation or step growth polymerization. Polyesters , Polyamides
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	

01.7.2021	phenol formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes, Natural and synthetic rubbers
02.7.2021	
03.7.2021	Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of $\alpha$ -amino acids, structure, classification of Proteins.
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid- phase peptide synthesis.
9.7.2021	
10.7.2021	Structures of peptides and proteins: Primary & Secondary structure.
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Revision and Doubt class.

16.7.2021	
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**Name of the Assistant/Associate Professor: Ms. Rajni**  
**Class and Section: B.Sc. Biotech -4<sup>th</sup> Semester**  
**Subject: Organic Chemistry (BT-406)**  
**Mode of Teaching: Online**  
**Lectures Per Week: Two**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Molecular vibrations, Hooke's law
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	selection rules, intensity and position of IR bands
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	measurement of IR spectrum, fingerprint region and assignment given on molecular vibrations and selection rules.
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.

24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Applications of IR spectroscopy in structure elucidation of simple organic compounds.
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Revision of Section- A
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines.
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Structural features affecting basicity of amines
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Test of IR compounds
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Preparation of alkyl and aryl amines
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Revision of Section- B and assignment given on Amines
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Mechanism of diazotisation, structure of benzene diazonium chloride
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Replacement of diazo group by H, OH, F, Cl, Br, I, NO <sub>2</sub> and CN groups
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Revision of Diazonium compounds
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	Test of Diazonium compounds

12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Preparation of nitro alkanes and nitro arenes and their chemical reactions.
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Mechanism of electrophilic substitution reactions in nitro arenes
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	reductions in acidic, neutral and alkaline medium and Revision
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate.
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Physical properties. Comparison of reactivities of aldehydes and ketones
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	benzoin, aldol, Perkin
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction.
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	Test of naming reactions
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Cannizzaro reaction. MPV, Clemmensen and assignment given on physical and chemical properties of aldehyde & ketones
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	wolff-Kishner, LiAlH <sub>4</sub> and NaBH <sub>4</sub> reductions.
24.7.2021	Doubt class



**Name of the Assistant/Associate Professor: Dr. Neha Shekhawat**

**Class and Section: Biotechnology -2<sup>nd</sup> Semester**

**Subject: Biostatistics (BT-201)**

**Mode of Teaching: Online**

**Lectures Per Week: 4**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to Biostatistics
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Relations between roots and coefficients of algebraic equations
16.4.2021	Relations between roots and coefficients of algebraic equations
17.4.2021	Solution of cubic equations Permutation and Combination
18.4.2021	<b>SUNDAY</b>
19.4.2021	Solution of cubic equations Permutation and Combination
20.4.2021	Solution of cubic equations Permutation and Combination
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	Binomialtheorem of integer
24.4.2021	Binomialtheorem of integer
25.4.2021	<b>SUNDAY</b>
26.4.2021	Binomialtheorem of integer
27.4.2021	Logarithm (definition and laws of logarithm, use of log table),
28.4.2021	-

29.4.2021	-
30.4.2021	Logarithm (definition and laws of logarithm, use of log table),
01.5.2021	Logarithm (definition and laws of logarithm, use of log table),
02.5.2021	<b>SUNDAY</b>
03.5.2021	Trigonometric Identities
04.5.2021	Trigonometric Identities
05.5.2021	-
06.5.2021	-
07.5.2021	Matrices and their elementary operations.
08.5.2021	Assignment and test of Binomial theorem of integer
9.5.2021	<b>SUNDAY</b>
10.5.2021	Functions
11.5.2021	Functions
12.5.2021	-
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Limits of functions(basic idea of limits of functions without analytic definition)
16.5.2021	<b>SUNDAY</b>
17.5.2021	Limits of functions(basic idea of limits of functions without analytic definition)
18.5.2021	Derivatives of functions
19.5.2021	-
20.5.2021	-
21.5.2021	Derivatives of functions
22.5.2021	Differentiation
23.5.2021	<b>SUNDAY</b>
24.5.2021	Differentiation
25.5.2021	Integration
26.5.2021	-
27.5.2021	-
28.5.2021	Integration
29.5.2021	Integration
30.5.2021	<b>SUNDAY</b>
31.5.2021	Applications of Differentiation and Integration
01.6.2021	Integration
02.6.2021	-
03.6.2021	-
4.6.2021	Assignment and test of Differentiation and integration
5.6.2021	Types of Data, Collection of data
6.6..2021	<b>SUNDAY</b>
7.6.2021	Primary & Secondary data
8.6..2021	Classification of Statistical data
9.6.2021	-
10.6.2021	-
11.6.2021	Graphical representation of Statistical data
12.6.2021	Graphical representation of Statistical data
13.6.2021	<b>SUNDAY</b>
14.6..2021	Measures of central tendency
15.6.2021	Measures of central tendency
16.6.2021	-
17.6.2021	-

18.6.2021	Measures of central tendency
19.6.2021	Measures of Dispersion
20.6.2021	<b>SUNDAY</b>
21.6.2021	Measures of Dispersion
22..6.2021	Measures of Skewness
23.6.2021	-
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Measures of Kurtosis
26.6.2021	Probability (classical & axiomatic definition of probability)
27.6.2021	<b>SUNDAY</b>
28.6.2021	Theorems on total and compound probability
29.6.2021	Theorems on total and compound probability
30.6.2021	-
01.7.2021	-
02.7.2021	Elementary ideas of Binomial
03.7.2021	Poisson and Normal distributions
4.7.2021	<b>SUNDAY</b>
5.7.2021	Assignment and test of Probability
6.7..2021	Methods of sampling,
7.7.2021	-
8.7..2021	-
9.7.2021	Confidence level
10.7.2021	Critical region
11.7.2021	<b>SUNDAY</b>
12.7.2021	Testing of hypothesis
13.7.2021	standard error
14.7..2021	-
15.7.2021	-
16.7.2021	Large sample test and small sample test.
17.7.2021	Problems on test of significance
18.7.2021	<b>SUNDAY</b>
19.7.2021	t-test
20.7.2021	chi-square test for goodness of fit
21.7.2021	-
22.7.2021	-
23.7.2021	Analysis of variance (ANOVA)
24.7.2021	Problems on test of significance
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision
27.7.2021	Revision
28.7.2021	-

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**Name of the Assistant/Associate Professor: Dr. Neha Shekhawat**  
**Class and Section: BSc. Biotech 4<sup>th</sup> Semester**  
**Subject: Mammalian Physiology (BT-404)**  
**Mode of Teaching: Online**  
**Lectures Per Week: 3**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	-
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction of Mammalian Physiology
16.4.2021	Introduction of Digestion
17.4.2021	Digestion and Respiration: Digestion: Mechanism of digestion
18.4.2021	<b>SUNDAY</b>
19.4.2021	-
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Absorption of carbohydrates, Digestion of Proteins
23.4.2021	Lipids, Nucleic acids
24.4.2021	Composition of bile
25.4.2021	<b>SUNDAY</b>
26.4.2021	-
27.4.2021	-
28.4.2021	Composition of Saliva
29.4.2021	Composition of Pancreatic, gastric & intestinal juices
30.4.2021	Respiration: Exchange of gases

01.5.2021	Transport of O <sub>2</sub> and CO <sub>2</sub>
02.5.2021	<b>SUNDAY</b>
03.5.2021	-
04.5.2021	-
05.5.2021	Oxygen dissociation curve
06.5.2021	Chloride shift
07.5.2021	Assignment and test of Digestion
08.5.2021	Circulation: Composition of blood
9.5.2021	<b>SUNDAY</b>
10.5.2021	-
11.5.2021	-
12.5.2021	Plasma proteins & their role
13.5.2021	blood cells
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Haemopoiesis
16.5.2021	<b>SUNDAY</b>
17.5.2021	-
18.5.2021	-
19.5.2021	Assignment and test of Respiration
20.5.2021	Mechanism of coagulation of blood
21.5.2021	Mechanism of working heart
22.5.2021	Cardiac output, cardiac cycle
23.5.2021	<b>SUNDAY</b>
24.5.2021	-
25.5.2021	-
26.5.2021	Origin & conduction of heart beat
27.5.2021	Origin & conduction of heart beat
28.5.2021	Problems on Circulation
29.5.2021	Assignment and test of mechanism of working of heart
30.5.2021	<b>SUNDAY</b>
31.5.2021	-
01.6.2021	-
02.6.2021	Muscle physiology and osmoregulation: Structure of cardiac, smooth & skeletal muscle
03.6.2021	threshold stimulus
4.6.2021	All or None rule, single muscle twitch
5.6.2021	muscle tone, isotonic and isometric contraction
6.6..2021	<b>SUNDAY</b>
7.6.2021	-
8.6..2021	-
9.6.2021	Physical, chemical & electrical events of mechanism of muscle contraction
10.6.2021	Excretion: modes of excretion
11.6.2021	Ornithine cycle
12.6.2021	Mechanism of urine formation
13.6.2021	<b>SUNDAY</b>
14.6..2021	-
15.6.2021	-
16.6.2021	Assignment and test of osmoregulation
17.6.2021	Nervous and endocrine coordination: Mechanism of generation & propagation of nerve impulse
18.6.2021	structure of synapse

19.6.2021	synaptic conduction
20.6.2021	<b>SUNDAY</b>
21.6.2021	-
22..6.2021	-
23.6.2021	Neurotransmitters
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	saltatory conduction
26.6.2021	Neurotransmitters function
27.6.2021	<b>SUNDAY</b>
28.6.2021	-
29.6.2021	-
30.6.2021	Mechanism of action of hormones (insulin and steroids)
01.7.2021	Different endocrine glands– Hypothalamus
02.7.2021	Pituitary glands
03.7.2021	Pineal glands, and adrenals,
4.7.2021	<b>SUNDAY</b>
5.7.2021	-
6.7..2021	-
7.7.2021	Thymus glands
8.7..2021	Thyroid, parathyroid
9.7.2021	Hypo & hypersecretions
10.7.2021	Assignment and test of Nervous system
11.7.2021	<b>SUNDAY</b>
12.7.2021	-
13.7.2021	-
14.7..2021	Revision of Digestion
15.7.2021	Revision of Respiration
16.7.2021	Revision of circulation
17.7.2021	Oral test of endocrine system
18.7.2021	<b>SUNDAY</b>
19.7.2021	-
20.7.2021	-
21.7.2021	Revision of Nervous system
22.7.2021	Revision of muscle physiology
23.7.2021	Revision and queries
24.7.2021	Revision and queries

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**Name of the Assistant/Associate Professor: Dr. Neha Shekhawat**

**Class and Section: BSc. Biotech-6<sup>th</sup> Semester**

**Subject: Animal Biotechnology (BT-602)**

**Mode of Teaching: Online**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	-
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	-
16.4.2021	Gene transfer methods in Animals – Microinjection
17.4.2021	Gene transfer methods in Animals – Microinjection, Embryonic Stem cell
18.4.2021	<b>SUNDAY</b>
19.4.2021	-
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	Embryonic Stem cell
24.4.2021	Embryonic Stem cell
25.4.2021	<b>SUNDAY</b>
26.4.2021	-
27.4.2021	-
28.4.2021	Retrovirus Gene transfer.
29.4.2021	-
30.4.2021	Retrovirus & Gene transfer.
01.5.2021	Retrovirus & Gene transfer, Assignment on gene transfer methods in animal
02.5.2021	<b>SUNDAY</b>
03.5.2021	-
04.5.2021	-
05.5.2021	Test on Gene transfer methods
06.5.2021	-
07.5.2021	Introduction to transgenesis.
08.5.2021	Introduction to transgenesis, Transgenic Animals – Mice
9.5.2021	<b>SUNDAY</b>
10.5.2021	-
11.5.2021	-
12.5.2021	Transgenic Animals – Cow
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Transgenic Animals –Pig, Transgenic Animals –Sheep
16.5.2021	<b>SUNDAY</b>
17.5.2021	-
18.5.2021	-
19.5.2021	Transgenic Animals –Goat
20.5.2021	-
21.5.2021	Transgenic Animals –Insect
22.5.2021	Animal diseases need help ofBiotechnology –Foot-and- mouth disease,
23.5.2021	<b>SUNDAY</b>

24.5.2021	-
25.5.2021	-
26.5.2021	Animal diseases need help of Biotechnology- Coccidiosis,
27.5.2021	-
28.5.2021	Animal diseases need help of Biotechnology –Coccidiosis
29.5.2021	Animal diseases need help of Biotechnology –Trypanosomiasis
30.5.2021	<b>SUNDAY</b>
31.5.2021	-
01.6.2021	-
02.6.2021	Animal diseases need help of Biotechnology –Theileriosis.
03.6.2021	-
4.6.2021	Animal diseases need help of Biotechnology –Theileriosis.
5.6.2021	Assignment and test of Transgenic animals
6.6..2021	<b>SUNDAY</b>
7.6.2021	-
8.6..2021	-
9.6.2021	Animal propagation – Artificial insemination
10.6.2021	-
11.6.2021	Animal propagation – Artificial insemination
12.6.2021	Animal propagation –Animal Clones.
13.6.2021	<b>SUNDAY</b>
14.6..2021	-
15.6.2021	-
16.6.2021	Test of Animal diseases need help of Biotechnology
17.6.2021	-
18.6.2021	Animal propagation –Animal Clones.
19.6.2021	Conservation Biology – Embryo transfer techniques.
20.6.2021	<b>SUNDAY</b>
21.6.2021	-
22..6.2021	-
23.6.2021	Conservation Biology – Embryo transfer techniques.
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Introduction to Stem Cell Technology and its applications.
26.6.2021	Introduction to Stem Cell Technology and its applications.
27.6.2021	<b>SUNDAY</b>
28.6.2021	-
29.6.2021	-
30.6.2021	Test of Conservation biology
01.7.2021	-
02.7.2021	Genetic modification in Medicine - gene therapy, types of gene therapy
03.7.2021	Genetic modification in Medicine - gene therapy, types of gene therapy
4.7.2021	<b>SUNDAY</b>
5.7.2021	-
6.7..2021	-
7.7.2021	Vectors in gene therapy
8.7..2021	-
9.7.2021	Vectors in gene therapy
10.7.2021	Molecular engineering

11.7.2021	<b>SUNDAY</b>
12.7.2021	-
13.7.2021	-
14.7..2021	Human genetic engineering- Problems & ethics
15.7.2021	-
16.7.2021	REVISION &QUERIES



**Name of the Assistant/Associate Professor: Dr. Pooja Sawhney**

**Class and Section: BSc. Biotechnology, 2<sup>nd</sup> Semester**

**Subject: Animal Diversity and Economic Zoology (BT-204)**

**Mode of Teaching: Online &Offline - Online**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Outline of classification of Non- Chordates upto subclasses
16.4.2021	Outline of classification of Non- Chordates upto subclasses
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Coelomata, Acoelomata
23.4.2021	Protostomes
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Protozoa: Locomotion, Reproduction, evolution of Sex
29.4.2021	General features and life history of Paramoecium
30.4.2021	Assignment and test of Paramoecium
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Porifera: General characters
06.5.2021	Test of Plasmodium
07.5.2021	Coelenterata: General Characters, Outline of classifications Polymorphism
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Various types of stinging cells
13.5.2021	Metagenesis, coral reefs and their formation
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Platyhelminthes- General Characters; Outline of classification
20.5.2021	Pathogenic flatworms: Parasitic adaptations, Importantl Larval forms.
21.5.2021	Aschelminthes: General features, Outline of classification
22.5.2021	

23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Pathogenic roundworms and their vectors in relation to man: Parasite adaptation
27.5.2021	Assignment and test of Porifera
28.5.2021	Annelida: - General features, Outline of classification
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Coelom: Metameric segmentation, Vermicomposting
03.6.2021	General features and life history of Earthworm,
4.6.2021	Arthropoda: General Features, Outline of Classification
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Larval forms of crustacean, Respiration in Arthropoda; Metamorphosis in insects
10.6.2021	Social insects; Insect vectors of diseases
11.6.2021	Apiculture, Sericulture.
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Mollusca : general features, Outline of classification, Shell Diversity; Torsion in gastropoda
17.6.2021	Mollusca : general features, Outline of classification, Shell Diversity; Torsion in gastropoda
18.6.2021	Life history of Pila
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Assignment and test of Annelida
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Echinodermata: General features, Outline of Classification
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Life history of starfish (Asterias) Larval forms
01.7.2021	Hemichordata: Phylogeny: Affinities of Balanoglossus
02.7.2021	Test of Star fish
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Revision of Mollusca
8.7..2021	Revision

9.7.2021	Revision
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Revision
15.7.2021	Revision
16.7.2021	Revision
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Revision
23.7.2021	Revision
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	Revision

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**Name of the Assistant/Associate Professor: Dr. Pooja Sawhney**  
**Class and Section: B. Sc. Biotechnology -4<sup>th</sup> Semester**  
**Subject: Molecular Biology (BT- 402)**  
**Mode of Teaching: Online &Offline - Online**  
**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	DNA as genetic material, Structure of DNA, Types of DNA
16.4.2021	DNA as genetic material, Structure of DNA, Types of DNA
17.4.2021	Replication of DNA in prokaryotes and eukaryotes
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Semiconservative nature of DNA replication, Bidirectional replication, DNA polymerases
23.4.2021	Semiconservative nature of DNA replication, Bidirectional replication, DNA polymerases
24.4.2021	The replication complex: prepriming proteins, primosome, replisome
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Rolling circle replication
30.4.2021	Unique aspects of eukaryotic chromosome replication, Fidelity of replication
01.5.2021	Test
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	DNA damage and repair: causes and types of DNA damage
07.5.2021	mechanism of DNA repair: Photoreactivation, base excision repair
08.5.2021	nucleotide excision repair, mismatch repair, translesion synthesis
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	recombinational repair, non homologous end joining.
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Homologous recombination: models and mechanism
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	RNA structure and types of RNA
21.5.2021	Transcription in prokaryotes: Prokaryotic RNA polymerase

22.5.2021	role of sigma factor, promoter, Initiation, elongation and termination of RNA chains
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Transcription in eukaryotes: Eukaryotic RNA polymerases, transcription factors
28.5.2021	promoters, enhancers, mechanism of transcription initiation
29.5.2021	promoter clearance and elongation
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	RNA splicing and processing: processing of pre-mRNA: 5' cap formation, polyadenylation
4.6.2021	splicing, rRNA and tRNA splicing
5.6.2021	Regulation of gene expression in prokaryotes: Operon concept (inducible and repressible system)
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	Test
9.6.2021	Genetic code and its characteristics
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Prokaryotic and eukaryotic translation: ribosome structure and assembly
18.6.2021	Charging of tRNA, aminoacyl tRNA synthetases
19.6.2021	Mechanism of initiation, elongation and termination of polypeptides
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Fidelity of translation
26.6.2021	Inhibitors of translation.
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Posttranslational modifications of proteins
02.7.2021	Posttranslational modifications of proteins
03.7.2021	Test
04.7.2021	<b>SUNDAY</b>
05.7.2021	
06.7.2021	
07.7.2021	

08.7.2021	Revision
09.7.2021	Revision
10.7.2021	Oral test
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	
15.7.2021	Revision
16.7.2021	Revision
17.7.2021	Revision
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Revision
23.7.2021	Revision
24.7.2021	Revision

✓  
Name of the Assistant/Associate Professor: Dr. Pooja Sawhney

Class and Section: BSc. Biotech-6<sup>th</sup> Semester

Subject: Bioprocess Technology(BT-603)

Mode of Teaching: Online

Lectures Per Week: 4

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	Introduction to bioprocess technology
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	-
16.4.2021	-
17.4.2021	Introduction to bioprocess technology
18.4.2021	<b>SUNDAY</b>
19.4.2021	Range of bioprocess technology and its chronological development
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	-
24.4.2021	Range of bioprocess technology and its chronological development
25.4.2021	<b>SUNDAY</b>
26.4.2021	Basic principle components of fermentation technology.
27.4.2021	-
28.4.2021	Types of microbial culture and its growth kinetics– Batch, Fedbatch and Continuous culture.
29.4.2021	-
30.4.2021	-
01.5.2021	Assignment and test of fermentation technology
02.5.2021	<b>SUNDAY</b>
03.5.2021	Design of bioprocess vessels- Significance of Impeller
04.5.2021	-
05.5.2021	Types of culture/production vessels- Airlift and their application in production processes
06.5.2021	-
07.5.2021	-
08.5.2021	Types of culture/production vessels- Airlift and their application in production processes
9.5.2021	<b>SUNDAY</b>
10.5.2021	Principles of upstream processing
11.5.2021	-
12.5.2021	Media preparation
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Inocula development
16.5.2021	<b>SUNDAY</b>
17.5.2021	Sterilization
18.5.2021	-
19.5.2021	Assignment and test of Bioprocess vessels
20.5.2021	-

21.5.2021	-
22.5.2021	Test of principles of upstream processing
23.5.2021	<b>SUNDAY</b>
24.5.2021	Introduction to oxygen requirement in bioprocess
25.5.2021	-
26.5.2021	Mass transfer coefficient
27.5.2021	-
28.5.2021	-
29.5.2021	Factors affecting KLa
30.5.2021	<b>SUNDAY</b>
31.5.2021	Bioprocess measurement and control system with special reference to computer aided process control.
01.6.2021	-
02.6.2021	Bioprocess measurement and control system with special reference to computer aided process control.
03.6.2021	-
4.6.2021	-
5.6.2021	Assignment and test of Oxygen requirement of bioprocess
6.6..2021	<b>SUNDAY</b>
7.6.2021	Test of Mass transfer coefficient and Factors affecting KLa
8.6..2021	-
9.6.2021	Introduction to downstream processing
10.6.2021	-
11.6.2021	-
12.6.2021	Product recovery and purification
13.6.2021	<b>SUNDAY</b>
14.6..2021	Effluent treatment
15.6.2021	-
16.6.2021	Microbial production of ethanol
17.6.2021	-
18.6.2021	-
19.6.2021	Assignment and test of downstream processing
20.6.2021	<b>SUNDAY</b>
21.6.2021	Microbial production of amylase, lactic acid and Single Cell Proteins
22..6.2021	-
23.6.2021	Microbial production of amylase, lactic acid and Single Cell Proteins
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	-
26.6.2021	Microbial production of amylase, lactic acid and Single Cell Proteins
27.6.2021	<b>SUNDAY</b>
28.6.2021	Revision
29.6.2021	-
30.6.2021	Revision
01.7.2021	-
02.7.2021	-
03.7.2021	Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7..2021	-

7.7.2021	Revision
8.7..2021	-
9.7.2021	-
10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	-
14.7..2021	Revision
15.7.2021	-
16.7.2021	-

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**Name of the Assistant/Associate Professor: Ms. Manisha**  
**Class and Section: M.Sc. Chemistry(P)**  
**Subject: Physical Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 24**

Date	Topic to be Covered
24.5.2021	Brief resume of first and second law of thermodynamics
25.5.2021	Entropy changes of reversible and irreversible processes
26.5.2021	Variation of entropy with temperature ,pressure and volume
27.5.2021	Entropy concept as a measure of unavailable energy and criteria for spontaneity of reaction
28.5.2021	Free energy functions and their significance, criteria for spontainty of a process,third law of thermodynamics
29.5.2021	Nernst heat theorm and determination of absolute entropy, and its unattainability of absolute zero and its limitation
30.5.2021	Phase diagram for two completely miscible components systems
31.5.2021	Classius –clayperon equation
01.6.2021	Law of mass action and its derivation
02.6.2021	Phase diagram for two completely immissible component system showing congruent melting point
03.6.2021	Phase diagram for two completely immissible components system showing incongruent melting point
4.6.2021	Gibbs duhem equation
5.6.2021	Revision
6.6..2021	<b>SUNDAY</b>
7.6.2021	Revision
8.6..2021	University exam
9.6.2021	University exam
10.6.2021	University exam
11.6.2021	University exam
12.6.2021	University exam
13.6.2021	<b>SUNDAY</b>
14.6.2021	University exam
15.6.2021 to 16.6.2021	University Examination
01.7.2021	Chain reactions:hydrogen-bromine reaction,
02.7.2021	Pyrolysis of acetaldehyde, decomposition of ethane, photochemical reactions (hydrogen-bromine & hydrogen chlorine reactions
03.7.2021	General tretement of chain reactions (ortho-para hydrogen conversion and hydrogen – chlorine reactions
4.7.2021	<b>SUNDAY</b>
5.7.2021	Apparent activation energy of chain reactions, chain length,Rice –Herzfeld mechanism of organic molecules decomposition (acetaldehyde)bran
6.7.2021	Branching chain reactions and explosions(H <sub>2</sub> –O <sub>2</sub> reaction), kinetics of one intermediate)enzymatic reaction:
7.7.2021	Michaelis-Menton treatement, evaluation of michaelis menton constant for enzyme-

	substrate binding by Lineweaver-Burk plot, by Dixon and by Eadie Hofstae methods
8.7.2021	Competitive and non –competitive inhibition
9.7.2021	Revision
10.7.2021	Test
11.7.2021	<b>SUNDAY</b>
12.7.2021	Ionic movement under the influence of an electric field,mobility of ions
13.7.2021	Ionic drift velocity and its relation with current density, Einstein relation between the absolute mobility and diffusion coefficient
14.7.2021	Stokes- Einstein relation, Nernst-Einstein equation, Waldens rule,the rate-process approach to ionic migration
15.7.2021	The rate process equation for equivalent conductivity, total driving force for ionic transport
16.7.2021	Nernst planck flux equation
17.7.2021	Revision
18.7.2021	<b>SUNDAY</b>
19.7.2021	Test
20.7.2021	Ionic drift and diffusion potential, the onsager phenomeniological equations
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	The basic equation for the diffusion potential ,the Onsagar phenomenological equations
23.7.2021	The basic equation for the diffusion, Planck-Henderson equation for diffusion potential
24.7.2021	Revision
25.7.2021	<b>SUNDAY</b>
26.7.2021	Doubt
27.6 2021	Test
28.7.2021	Schrodinger wave equation for a partical in a three dimensional box
29.7.2021	Concept of degeneracy of energy of energy levels
30.7.2021	Schrodinger wave equation for linear harmonic oscilliator
31.7.2021	Solution by polynomial method,zero point energy and iths consequence
01.8.2021	<b>SUNDAY</b>
02.8.2021	Doubts
03.8.2021	Revision
4.8.2021	Test
5.8.2021	Schrodinger wave equation for three dimensional rigid rotator
6.8..2021	Energy of rigid rotator
7.8.2021	Space quantization
8.8..2021	<b>SUNDAY</b>
9.8.2021	Schrodinger wave equation for hydrogen atom
10.8.2021	Separation of variables in polar spherical coordinates and its solution
11.8.2021	Principle,azimuthal and magnetic quantum numbers and magnitude of their values
12.8.2021	Probability distribution function and radial distribution function
13.8.2021	Revision
14.8..2021	Doubt
15.8.2021	<b>SUNDAY</b>
16.8.2021	Test
17.8.2021	Shape of atomic orbitals (s,p & d)
18.8.2021	Revision
19.8.2021	Revision
20.8.2021	Mohrram
21.8.2021	Revision
22..8.2021	<b>SUNDAY</b>

23.8.2021	Revision
24.8.2021	Revision

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Name of the Assistant/Associate Professor: Ms. Manisha

Class and Section: M.Sc. Chemistry

Subject: General Spectroscopy

Mode of Teaching: Online & Offline

Lectures Per Week: 24

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Energy levels in diatomic molecules, introduction to electronic transition
28.5.2021	Assignment of transitions
29.5.2021	
30.5.2021	
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Spectra of transition metal complexes, Orgel diagram
4.6.2021	Calculation of $Dq$ and $\beta$ for Ni(II) complexes
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6.2021	University exam
9.6.2021	University exam
10.6.2021	University exam
11.6.2021	University exam
12.6.2021	University exam
13.6.2021	<b>SUNDAY</b>
14.6.2021	University exam
15.6.2021	University
16.6.2021	Examination
01.7.2021	Structural evidence from electronic spectra
02.7.2021	Nuclear magnetic resonance applications of spin-spin coupling to structure alignment of inorganic compounds
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7.2021	
7.7.2021	
8.7.2021	Revision
9.7.2021	Test
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	
15.7.2021	Evaluation of reaction rates of fast exchange reactions
16.7.2021	The double resonance technique
17.7.2021	
18.7.2021	<b>SUNDAY</b>

19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Revision
23.7.2021	Test
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	
29.7.2021	Application of infra-red spectroscopy to the determination of inorganic compounds
30.7.2021	Revision
31.7.2021	
01.8.2021	<b>SUNDAY</b>
02.8.2021	
03.8.2021	
4.8.2021	
5.8.2021	Revision
6.8..2021	Test
7.8.2021	
8.8..2021	<b>SUNDAY</b>
9.8.2021	
10.8.2021	
11.8.2021	
12.8.2021	Revision
13.8.2021	Revision
14.8..2021	
15.8.2021	<b>SUNDAY</b>
16.8.2021	
17.8.2021	
18.8.2021	
19.8.2021	Revision
20.8.2021	Mohrram
21.8.2021	
22..8.2021	<b>SUNDAY</b>
23.8.2021	
24.8.2021	

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**Name of the Assistant/Associate Professor: Dr. Vandana**

**Class and Section: M.sc mathematics**  
**Subject: classical mechanics: 17MAT24C2**  
**Mode of Teaching: Online &Offline: online**  
**Lectures Per Week: 6**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction of syllabus
13.4.2021	Some theorem based upon classical mechanics
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Moment of inertia
16.4.2021	Product of inertia
17.4.2021	Angular momentum of a rigid body
18.4.2021	<b>SUNDAY</b>
19.4.2021	Principal axis
20.4.2021	Principal moment of inertia of a rigid body
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Kinetic energy of a rigid body
23.4.2021	Momental ellipsoid
24.4.2021	Equipomental systems
25.4.2021	<b>SUNDAY</b>
26.4.2021	Coplanar mass distribution
27.4.2021	General motion of a rigid body
28.4.2021	Revision
29.4.2021	Revision
30.4.2021	Doubt class
01.5.2021	Doubt class
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test
04.5.2021	Free and constrained system
05.5.2021	Constraints and their classification
06.5.2021	Holonomic and non holonomic system
07.5.2021	Degree of freedom
08.5.2021	Generalized coordinates
9.5.2021	<b>SUNDAY</b>
10.5.2021	Virtual displacement and virtual work
11.5.2021	Principle virtual work
12.5.2021	Possible velocity and possible acceleration
13.5.2021	Ideal constraints
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	General equation of dynamics for ideal constraints
16.5.2021	<b>SUNDAY</b>
17.5.2021	Lagrange equation of first kind
18.5.2021	D'alembert's principle
19.5.2021	Independent constraints and generalized forces
20.5.2021	Lagrange equations of the second kind
21.5.2021	Generalized velocities and accelerations
22.5.2021	Uniqueness theorem
23.5.2021	<b>SUNDAY</b>
24.5.2021	Variation of total energy for conservative fields
25.5.2021	Lagrange variable

26.5.2021	Lagrangian function
27.5.2021	Lagrange equation for potential forces
28.5.2021	Generalized momenta $p_i$
29.5.2021	Revision
30.5.2021	<b>SUNDAY</b>
31.5.2021	Revision
01.6.2021	Doubt class
02.6.2021	Doubt class
03.6.2021	Test
4.6.2021	Hamiltonian variable
5.6.2021	Hamiltonian function
6.6..2021	<b>SUNDAY</b>
7.6.2021	Donkin theorem
8.6..2021	Ignorable coordinates
9.6.2021	Hamiltonian canonical equation
10.6.2021	Routh variables
11.6.2021	Routh function
12.6.2021	Routh equation
13.6.2021	<b>SUNDAY</b>
14.6..2021	Hamilton action and Hamilton principle
15.6.2021	Poincare carton integral invariant
16.6.2021	Whittaker equations
17.6.2021	Jacobi equations
18.6.2021	Lagrangian action
19.6.2021	Principle of least action
20.6.2021	<b>SUNDAY</b>
21.6.2021	Revision
22..6.2021	Revision
23.6.2021	Revision
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Doubt class
26.6.2021	Doubt class
27.6.2021	<b>SUNDAY</b>
28.6.2021	Test
29.6.2021	Canonical transformation
30.6.2021	Necessary and sufficient condition for canonical transformation
01.7.2021	Univalent canonical transformation
02.7.2021	Free canonical transformation
03.7.2021	Hamiltonian jacobi equation
4.7.2021	<b>SUNDAY</b>
5.7.2021	Jacobi theorem
6.7..2021	HJ equation
7.7.2021	Lagrange bracket
8.7..2021	Jacobian matrix of a canonical transformation
9.7.2021	Condition in terms of poisson bracket
10.7.2021	Invariance of poisson brackets under canonical transformation
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	Revision
14.7..2021	Revision

15.7.2021	Revision
16.7.2021	Test

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Name of the Assistant/Associate Professor: Dr. Vandana

**Class and Section: M.Sc Mathematics 2<sup>nd</sup> Semester**

**Subject: operations research**

**Mode of Teaching: Online &Offline: online**

**Lectures Per Week: 6**

<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	Introduction of syllabus
25.5.2021	Operations research origin, definition and scope
26.5.2021	Linear programming
27.5.2021	Formulation of lpp
28.5.2021	Solution of lpp by graphical method
29.5.2021	Simplex method
30.5.2021	Problem based
31.5.2021	Problem based
01.6.2021	Problem based
02.6.2021	Big m method
03.6.2021	Two phases method
4.6.2021	Degeneracy in lpp
5.6.2021	Duality in lpp
6.6..2021	<b>SUNDAY</b>
7.6.2021	Problem based
8.6..2021 to 30.6.2021	University exam
01.7.2021	Revision of previous work
02.7.2021	Revision of previous work
03.7.2021	Revision of previous work
04.7.2021	<b>SUNDAY</b>
05.7.2021	Test
06.7.2021	Transportation problems
7.7.2021	Basic feasible solutions
8.7..2021	Optimum solution by stepping stone method
9.7.2021	Modified distribution method
10.7.2021	Unbalanced problem
11.7.2021	<b>SUNDAY</b>
12.7.2021	Degenerate problem
13.7.2021	Transshipment problem
14.7.2021	Problem based
15.7.2021	Problem based
16.7.2021	Revision of previous work
17.7.2021	Test
18.7.2021	<b>SUNDAY</b>
19.7.2021	Assignment problem
20.7.2021	Hungarian method
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Unbalanced problem
23.7.2021	Case of maximization
24.7.2021	Traveling salesman method
25.7.2021	<b>SUNDAY</b>
26.7.2021	Crew assignment problem
27.6 2021	Problem based
28.7.2021	Problem based

29.7.2021	Problem based
30.7.2021	Concept of stochastic processes
31.7.2021	Poisson process
01.8.2021	<b>SUNDAY</b>
02.8.2021	Birth death process
03.8.2021	Queuing model
04.8.2021	Basic components of a queuing model
05.8.2021	Steady state solution of markovian single server
06.8.2021	Model on multiple servers
07.8.2021	Revision
08.8.2021	<b>SUNDAY</b>
9.8.2021	Revision
10.8.2021	Test
11.8.2021	Inventory control model
12.8.2021	Uniform model with uniform demand
13.8.2021	Model when shortages are allowed
14.8.2021	Uniform replenishment
15.8.2021	<b>SUNDAY</b>
16.8.2021	Inventory control with price break
17.8.2021	Game theory
18.8.2021	Two person zero sum game
19.8.2021	Game with saddle point
20.8.2021	Mohrram
21.8.2021	The rule of dominance
22.8.2021	<b>SUNDAY</b>
23.8.2021	Revision
24.8.2021	Revision

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**Name of the Assistant/Associate Professor: Dr. Radhika Urmalia**

**Class and Section: B.Sc 4<sup>th</sup>Semester (A &B)**

**Subject: Biology and Diversity of seed plants II Paper code-4.1**

**Mode of Teaching: Online**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Syllabus was discussed
13.4.2021	Introduction of taxonomy and types
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Systematics Bio and Neo
20.4.2021	Aims and fundamental components
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Floral symbols
27.4.2021	Floral symbols
28.4.2021	Test
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Bionomial nomenclature and its principles
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Rules of bionomial nomenclature
11.5.2021	Test
12.5.2021	Type concept
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Herbarium and botanical gardens
18.5.2021	Recommendations of taxonomy
19.5.2021	Modern trends in plant taxonomy in relation to phytochemistry
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Role of cytology and taximetrics in relation to taxonomy
25.5.2021	Keys to identification of plants (Taxonomic keys)

26.5.2021	Phylogeny of Angiosperms
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Phylogeny of Angiosperms
01.6.2021	Phylogeny of Angiosperms
02.6.2021	Test
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Floral terms (calyx)
8.6..2021	Floral terms (corolla)
9.6.2021	Floral terms (Androecium)
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Floral terms (Gynoecium)
15.6.2021	Types of placentation
16.6.2021	Types of inflorescence (Recemose)
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Types of inflorescence (Cymose)
22..6.2021	Types of inflorescence (Special)
23.6.2021	Classification of Angiosperms
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Discription of Angiospermic plants, Ranunculaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
29.6.2021	Brassicaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
30.6.2021	Malvaceae and Rutaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Fabaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
6.7..2021	Apiaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
7.7.2021	Asteraceae&Asclepiadaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
8.7..2021	

9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Solanaceae and Lamiaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
13.7.2021	Euphorbiaceae :Distribution, common plants, diagnostic features, morphological description and economic importance
14.7.2021	Liliaceae and Poaceae: Distribution, common plants, diagnostic features, morphological description and economic importance
15.7.2021	
16.7.2021	

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**Name of the Assistant/Associate Professor: Dr.Radhika Urmalia**  
**Class and Section: B.Sc. 4<sup>th</sup>Semester (A &B)**

**Subject: Plant Embryology**

**Mode of Teaching: Online**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Syllabus was discussed
13.4.2021	Flower as a modified shoot and functions of floral parts
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Microsporogenesis: The stamen
20.4.2021	Microsporogenesis: Male gametophyte
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Pollination types:Self
27.4.2021	Pollination types:Cross
28.4.2021	Test
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Agents and types of pollination
04.5.2021	Agents and types of pollination
05.5.2021	Megasporogenesis: Megasporangium
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Megasporogenesis: Female gametophyte
11.5.2021	Test
12.5.2021	Types of embryo sacs
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Pollen pistil interaction
18.5.2021	Self incompatibility
19.5.2021	Fertilization and Double fertilization
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Endosperm: Types
25.5.2021	Some characters of endosperms
26.5.2021	Embryogenesis in Dicots

27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Embryogenesis in monocots
01.6.2021	The fruit:Classification (Simple fruits)
02.6.2021	The fruit:Classification(Aggregatefruits)
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	The fruit:Classification (Composite fruits)
8.6..2021	The seed: Structure
9.6.2021	Dicot : Endospermic and non endospermic
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Monocot endospermic , difference between seed and grain
15.6.2021	Types of Seed germination :Epigeal
16.6.2021	Types of Seed germination : Hypogeal
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Types of Seed germination : Partial Hypogeal and epigeal
22..6.2021	Dispersal in fruits and seeds: Wind dispersal
23.6.2021	Dispersal in fruits and seeds: Wind dispersal
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Test
29.6.2021	Dispersal in fruits and seeds: Water dispersal (Hydrochory)
30.6.2021	Dispersal in fruits and seeds: Water dispersal (Hydrochory)
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Dispersal in fruits and seeds: animal dispersal(Zoochory)
6.7..2021	Dispersal in fruits and seeds: animal dispersal(Zoochory)
7.7.2021	Revision of types of fruits
8.7..2021	Revision of seed dispersal
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision: Microsporogenesis
13.7.2021	Revision: Megasporogenesis
14.7.2021	Revision:Pollination types
15.7.2021	

16.7.2021	
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**Name of the Assistant/Associate Professor: Dr. Jasvinder Kour**  
**Class and Section: B.Sc. Biotechnology -2<sup>nd</sup> Semester**

**Subject: Genetics (BT-203)**

**Mode of Teaching: Online & Offline**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Historical developments in the field of genetics.
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Organisms suitable for genetic experimentation and their genetic significance.
16.4.2021	-
17.4.2021	Mitosis
18.4.2021	<b>SUNDAY</b>
19.4.2021	Meiosis, Role of meiosis in life cycle.
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Control points in cell-cycle progression in yeast.
23.4.2021	-
24.4.2021	Mendel's experimental design,
25.4.2021	<b>SUNDAY</b>
26.4.2021	Monohybrid AND Di-hybrid
27.4.2021	-
28.4.2021	-
29.4.2021	Tryhybrid crosses
30.4.2021	-
01.5.2021	Law of segregation & Principle of independent assortment.
02.5.2021	<b>SUNDAY</b>
03.5.2021	Verification of segregates by test and back cross, Chromosome theory of inheritance
04.5.2021	-
05.5.2021	-
06.5.2021	Allelic interactions: Concept of dominance, recessiveness, incomplete dominance,
07.5.2021	-
08.5.2021	Co-dominance, semi-dominance, pleiotropy, multiple allele
9.5.2021	<b>SUNDAY</b>
10.5.2021	Pseudoallele, essential and lethal genes, penetrance and expressivity.
11.5.2021	-
12.5.2021	-
13.5.2021	Non allelic interactions: Interaction producing new phenotype complementary genes
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Epistasis (dominant & recessive), duplicate genes and inhibitory genes
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test
18.5.2021	-
19.5.2021	-
20.5.2021	Eukaryotic nuclear genome- nucleotide sequence composition –unique & repetitive DNA, satellite DNA.
21.5.2021	-
22.5.2021	Centromere and telomere DNA sequences, middle repetitive sequences- VNTRs & dinucleotide repeats
23.5.2021	<b>SUNDAY</b>

24.5.2021	Repetitive transposed sequences- SINEs & LINEs, middle repetitive multiple copy genes, noncoding DNA.
25.5.2021	-
26.5.2021	-
27.5.2021	Genetic organization of prokaryotic and viral genome.
28.5.2021	-
29.5.2021	Structure and characteristics of bacterial and eukaryotic chromosome- chromosome morphology
30.5.2021	<b>SUNDAY</b>
31.5.2021	Concept of euchromatin and heterochromatin
01.6.2021	-
02.6.2021	-
03.6.2021	Packaging of DNA molecule into chromosomes, Chromosome banding pattern,
4.6.2021	-
5.6.2021	Giant chromosomes, one gene one polypeptide hypothesis
6.6.2021	<b>SUNDAY</b>
7.6.2021	Concept of cistron, Exons, Introns, Genetic code, Gene function
8.6.2021	-
9.6.2021	-
10.6.2021	Test
11.6.2021	-
12.6.2021	Definition and types of mutations, causes of mutations
13.6.2021	<b>SUNDAY</b>
14.6.2021	Ames test for mutagenic agents, Screening procedures for isolation of mutants and uses of mutants
15.6.2021	-
16.6.2021	-
17.6.2021	Variations in chromosomes structure - deletion, duplication, inversion and translocation (reciprocal and Robertsonian)
18.6.2021	-
19.6.2021	Position effects of gene expression, Chromosomal aberrations in human beings,
20.6.2021	<b>SUNDAY</b>
21.6.2021	Abnormalities- Aneuploidy and Euploidy
22.6.2021	-
23.6.2021	-
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	-
26.6.2021	Mechanisms of sex determination
27.6.2021	<b>SUNDAY</b>
28.6.2021	Environmental factors and Sex determination, sex differentiation, Barr bodies, Dosage compensation, Genetic balance theory
29.6.2021	-
30.6.2021	-
01.7.2021	Fragile-X-syndrome and chromosome, sex influenced dominance
02.7.2021	-
03.7.2021	Sex limited gene expression, Sex linked inheritance
4.7.2021	<b>SUNDAY</b>
5.7.2021	Previous topic discussion
6.7.2021	-
7.7.2021	-

8.7.2021	Linkage and recombination of genes in a chromosome crossing over, Cytological basis of crossing over
9.7.2021	-
10.7.2021	Molecular mechanism of crossing over, Crossing over at four- strand stage
11.7.2021	<b>SUNDAY</b>
12.7.2021	Multiple crossing overs Genetic mapping. Rules of extra nuclear inheritance, Maternal effects
13.7.2021	-
14.7.2021	-
15.7.2021	Maternal inheritance, Cytoplasmic inheritance, Organelle heredity, Genomic imprinting, Inbreeding and Out breeding
16.7.2021	-
17.7.2021	Hardy Weinberg law assumption, (prediction, derivation)
18.7.2021	<b>SUNDAY</b>
19.7.2021	Allelic and genotype frequencies, Changes in allelic frequencies, Systems of mating, Evolutionary Genetics, Natural selection
20.7.2021	-
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Revision
23.7.2021	-
24.7.2021	Revision
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision
27.6 2021	-
28.7.2021	-

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**Name of the Assistant/Associate Professor: Dr. Jasvinder Kour**  
**Class and Section: Biotechnology 4<sup>th</sup> Sem**

**Subject: Animal Developmental Biology (BT-403)**

**Mode of Teaching: Online & Offline**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Definition, scope & historical perspective of development Biology
13.4.2021	Definition, scope & historical perspective of development Biology
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	-
16.4.2021	Gametogenesis – Spermatogenesis
17.4.2021	Gametogenesis – Spermatogenesis
18.4.2021	<b>SUNDAY</b>
19.4.2021	Gametogenesis – Oogenesis
20.4.2021	Gametogenesis – Oogenesis
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	Fertilization - Definition, mechanism, types of fertilization.
24.4.2021	Fertilization - Definition, mechanism, types of fertilization.
25.4.2021	<b>SUNDAY</b>
26.4.2021	Different types of eggs on the basis of yolk
27.4.2021	Different types of eggs on the basis of yolk
28.4.2021	-
29.4.2021	-
30.4.2021	Cleavage: Definition, types, patterns & mechanism
01.5.2021	Cleavage: Definition, types, patterns & mechanism
02.5.2021	<b>SUNDAY</b>
03.5.2021	Blastulation: Process, types & mechanism
04.5.2021	Blastulation: Process, types & mechanism
05.5.2021	-
06.5.2021	-
07.5.2021	Morphogenetic movements– epiboly, emboly
08.5.2021	Morphogenetic movements– epiboly, emboly
9.5.2021	<b>SUNDAY</b>
10.5.2021	Morphogenetic movements- extension, invagination, convergence,
11.5.2021	Morphogenetic movements- extension, invagination, convergence,
12.5.2021	-
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Morphogenetic movements- de-lamination
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test
18.5.2021	Test discussion
19.5.2021	-
20.5.2021	-
21.5.2021	Formation & differentiation of primary germ layers
22.5.2021	Formation & differentiation of primary germ layers
23.5.2021	<b>SUNDAY</b>
24.5.2021	Fate Maps in early embryos
25.5.2021	Differentiation: Cell commitment and determination
26.5.2021	-

27.5.2021	-
28.5.2021	Differentiation: Cell commitment and determination
29.5.2021	Differentiation: Cell commitment and determination
30.5.2021	<b>SUNDAY</b>
31.5.2021	The epigenetic landscape: a model of determination and differentiation
01.6.2021	The epigenetic landscape: a model of determination and differentiation
02.6.2021	-
03.6.2021	-
04.6.2021	The epigenetic landscape: a model of determination and differentiation
05.6.2021	Control of differentiation at the level of genome
06.6.2021	<b>SUNDAY</b>
07.6.2021	Control of differentiation at the level of genome
08.6.2021	Transcription and post-translation level Concept of embryonic induction Primary, secondary & tertiary embryonic induction
09.6.2021	-
10.6.2021	-
11.6.2021	Transcription and post-translation level Concept of embryonic induction Primary, secondary & tertiary embryonic induction
12.6.2021	Test
13.6.2021	<b>SUNDAY</b>
14.6.2021	Test Discussion
15.6.2021	Neural induction
16.6.2021	-
17.6.2021	-
18.6.2021	Neural induction
19.6.2021	Neural induction
20.6.2021	<b>SUNDAY</b>
21.6.2021	Induction of vertebrate lens
22.6.2021	Induction of vertebrate lens
23.6.2021	-
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Neurulation,
26.6.2021	Neurulation,
27.6.2021	<b>SUNDAY</b>
28.6.2021	Notogenesis
29.6.2021	Notogenesis
30.6.2021	-
01.7.2021	-
02.7.2021	Development of vertebrate eye
03.7.2021	Development of vertebrate eye
4.7.2021	<b>SUNDAY</b>
5.7.2021	Fate of different primary germ layers
6.7.2021	Fate of different primary germ layers
7.7.2021	-
8.7.2021	-
9.7.2021	Development of behaviour: constancy & plasticity
10.7.2021	Development of behaviour: constancy & plasticity
11.7.2021	<b>SUNDAY</b>
12.7.2021	Extra embryonic membranes
13.7.2021	Extra embryonic membranes

14.7.2021	-
15.7.2021	-
16.7.2021	Placenta in Mammals
17.7.2021	Placenta in Mammals
18.7.2021	<b>SUNDAY</b>
19.7.2021	Revision
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	-
23.7.2021	Revision
24.7.2021	Revision

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**Name of the Assistant/Associate Professor: Dr. Jasvinder Kour**

**Class and Section: BSc. Biotechnology 6<sup>th</sup> Semester**

**Subject: Plant Biotechnology & Environmental Biotechnology (BT-604)**

**Mode of Teaching: Online & Offline**

**Lectures Per Week: 4**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to <i>in vitro</i> methods. Terms and definitions.
13.4.2021	-
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	-
16.4.2021	-
17.4.2021	-
18.4.2021	<b>SUNDAY</b>
19.4.2021	Use of growth regulators. Embryo culture.
20.4.2021	-
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	-
24.4.2021	-
25.4.2021	<b>SUNDAY</b>
26.4.2021	Embryo rescue after wide hybridization and its applications.
27.4.2021	-
28.4.2021	Introduction to the processes of embryogenesis and their practical applications.
29.4.2021	-
30.4.2021	-
01.5.2021	-
02.5.2021	<b>SUNDAY</b>
03.5.2021	Introduction to the processes of organogenesis and their practical applications.
04.5.2021	-
05.5.2021	Clonal multiplication of lite species (Micropropagation) exillary bud.
06.5.2021	-
07.5.2021	-
08.5.2021	-
9.5.2021	<b>SUNDAY</b>
10.5.2021	Shoot-tip and meristem culture. Haploids and their applications.
11.5.2021	-
12.5.2021	Somaclonal variations and applications.
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	-
16.5.2021	<b>SUNDAY</b>
17.5.2021	Endosperm culture and production of triploids.
18.5.2021	-
19.5.2021	TEST
20.5.2021	-
21.5.2021	-
22.5.2021	-
23.5.2021	<b>SUNDAY</b>
24.5.2021	TEST DISSCUTION
25.5.2021	-
26.5.2021	Single –cell suspension cultures. Introduction to protoplast isolation: Principles and applications.

27.5.2021	-
28.5.2021	-
29.5.2021	-
30.5.2021	<b>SUNDAY</b>
31.5.2021	Introduction to protoplast isolation: Principles and applications.
01.6.2021	-
02.6.2021	Various steps in the regeneration of protoplasts.
03.6.2021	-
4.6.2021	-
5.6.2021	-
6.6..2021	<b>SUNDAY</b>
7.6.2021	Somatic hybridization – an introduction. Use of markers for selection of hybrid cells. Practical applications of somatic hybridization (hybrids vs cybrids).
8.6..2021	-
9.6.2021	Microbiological quality of food and water.
10.6.2021	-
11.6.2021	-
12.6.2021	-
13.6.2021	<b>SUNDAY</b>
14.6..2021	Treatment of municipal waste and industries effluents..
15.6.2021	-
16.6.2021	Degradation of pesticides and other toxic chemicals by microorganisms(Bioremediation).
17.6.2021	-
18.6.2021	-
19.6.2021	-
20.6.2021	<b>SUNDAY</b>
21.6.2021	Thuringiensis toxin as a natural pesticide. Biological control of other insects swarming the agricultural fields.
22..6.2021	-
23.6.2021	Enrichment of ores by microorganisms. Biofertilizers.
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	-
26.6.2021	-
27.6.2021	<b>SUNDAY</b>
28.6.2021	Nitrogen fixing microorganisms enrich the soil with assimilable nitrogen.
29.6.2021	-
30.6.2021	Previous year question solved
01.7.2021	-
02.7.2021	-
03.7.2021	-
04.7.2021	<b>SUNDAY</b>
05.7.2021	Previous year question solved
06.7.2021	
07.7.2021	REVISSION
08.7.2021	-
9.7.2021	-
10.7.2021	-
11.7.2021	<b>SUNDAY</b>
12.7.2021	REVISSION

13.7.2021	-
14.7.2021	REVISSION
15.7.2021	-
16.7.2021	-

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**Name of the Assistant/Associate Professor: Ms.Sonam Ahuja**  
**Class and Section: B.Sc -6<sup>th</sup> semester, Section: A,B**  
**Subject: Real and Complex Analysis**  
**Mode of Teaching: Online &Offline**

**Lectures Per Week: 6****Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Intro to Real and Complex Analysis
13.4.2021	Intro to unit 1
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Jacobians
16.4.2021	Beta and gamma functions
17.4.2021	Double and triple integrals
18.4.2021	<b>SUNDAY</b>
19.4.2021	Dirichlet's integrals
20.4.2021	Numericals
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	change of order of integration in double integrals
23.4.2021	Numericals
24.4.2021	Doubts of unit 1
25.4.2021	<b>SUNDAY</b>
26.4.2021	Doubts of unit 1
27.4.2021	Intro to unit 2
28.4.2021	Fourier expansion of piecewise mono tonic functions
29.4.2021	properties of Fourier coefficients
30.4.2021	dirichlet conditions
01.5.2021	Numericals
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test of unit 1
04.5.2021	parseval identity for Fourier series
05.5.2021	Numericals
06.5.2021	Test of unit 1
07.5.2021	Fourier series for even and odd functions
08.5.2021	Numericals
9.5.2021	<b>SUNDAY</b>
10.5.2021	Half range series
11.5.2021	Numericals
12.5.2021	Change of intervals
13.5.2021	Doubts of unit 2
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Doubts of unit 2
16.5.2021	<b>SUNDAY</b>
17.5.2021	Intro to unit 3
18.5.2021	Extended Complex plane
19.5.2021	Stereographic projection of complex numbers
20.5.2021	Related Theorems
21.5.2021	Continuity of complex functions
22.5.2021	Related Theorems
23.5.2021	<b>SUNDAY</b>
24.5.2021	Differentiability of complex functions
25.5.2021	Related Theorems
26.5.2021	Test of unit 2
27.5.2021	Analytic Functions
28.5.2021	Applications

29.5.2021	Cauchy Riemann equation
30.5.2021	<b>SUNDAY</b>
31.5.2021	Numericals
01.6.2021	harmonic functions
02.6.2021	Doubts of unit 3
03.6.2021	Doubts of unit 3
4.6.2021	Intro to unit 4
5.6.2021	Mappings by elementary Functions
6.6..2021	<b>SUNDAY</b>
7.6.2021	Translation
8.6..2021	Numericals
9.6.2021	Rotation
10.6.2021	Numericals
11.6.2021	Magnification
12.6.2021	Numericals
13.6.2021	<b>SUNDAY</b>
14.6..2021	Inversion mapping
15.6.2021	Numericals
16.6.2021	Conformal Mapping
17.6.2021	Möbius transformation
18.6.2021	Numericals
19.6.2021	Cross Ratio
20.6.2021	<b>SUNDAY</b>
21.6.2021	Fixed points
22..6.2021	Numericals
23.6.2021	Test of unit 3
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Inverse points
26.6 2021	Numericals
27.6.2021	<b>SUNDAY</b>
28.6.2021	Critical Mapping
29.6.2021	Doubts of Unit 4
30.6.2021	Doubts of Unit 4
01.7.2021	Revision
02.7.2021	Revision
03.7.2021	Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7..2021	Revision
7.7.2021	Revision
8.7..2021	Revision
9.7.2021	Revision
10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	Revision
14.7..2021	Revision
15.7.2021	Revision
16.7.2021	Revision

✓  
**Name of the Assistant/Associate Professor: Dr. Mamta Singh**  
**Class and Section: B.Sc.(Med)2<sup>nd</sup> Semester, Section A&B**  
**Subject: Zoology(Life and Diversity of Annelida to Hemichordata)**  
**Mode of Teaching: Online**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	General Discussion about Books and Syllabus
16.4.2021	Phylum - Annelida: General characters and classification up to order level
17.4.2021	Topic continued
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Biodiversity and economic importance of Annelida
23.4.2021	Topic continued
24.4.2021	Type study - Pheretima (Earthworm)
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Topic continued
30.4.2021	Topic continued
01.5.2021	Topic continued
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Metamerism in Annelida
07.5.2021	Trochophorelarva: Affinities, evolutionary significance
08.5.2021	Test/Assignment
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Phylum - Arthropoda: General characters and classification up to order level
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Topic continued
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Biodiversity and economic importance of insects
21.5.2021	Type study – Periplaneta
22.5.2021	Topic continued
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Topic continued
28.5.2021	Topic continued

29.5.2021	Topic continued
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Test/assignment
4.6.2021	Phylum - Mollusca: General characters and classification up to order level
5.6.2021	Topic continued
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Biodiversity and economic importance
11.6.2021	Type study - Pila
12.6.2021	Topic continued
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Topic continued
18.6.2021	Torsion and detorsion in gastropoda
19.6.2021	Respiration and foot
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Test/assignment
26.6.2021	Phylum - Echinodermata: General characters and classification up to order level
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Biodiversity and economic importance
02.7.2021	Type Study -Asteries (Sea Star)
03.7.2021	Topic continued
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Topic continued
9.7.2021	Echinoderm larvae, Aristotle's Lantern
10.7.2021	Phylum – Hemichordata: Type study: Balanoglossus
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Topic continued
16.7.2021	Topic continued
17.7.2021	Revision

18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Revision
23.7.2021	Revision
24.7.2021	Test/assignment
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Mamta Singh**  
**Class and Section: B.Sc(Med) 2<sup>nd</sup> Semester, Section A&B**  
**Subject: Paper 2.2(Genetics)**  
**Mode of Teaching: Online**  
**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	General Discussion about Books and Syllabus
16.4.2021	<b>UNIT-I</b> Elements of Heredity and variations.
17.4.2021	Topic continued
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Topic continued
23.4.2021	The varieties of gene interactions
24.4.2021	Topic continued
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Linkage and recombination: Coupling and repulsion hypothesis
30.4.2021	Topic continued
01.5.2021	crossing-over and chiasma formation; gene mapping.
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Topic continued
07.5.2021	Test/Assignment
08.5.2021	<b>UNIT-II</b> Sex determination and its mechanism: male and female heterozygous systems, genetic balance system
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	role of Y -chromosome, male haploidy, cytoplasmic and environmental factors, role of hormones in sex determination
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Topic continued
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Sex linked inheritance: Haemophilia and colour blindness in man, eye colour in Drosophila
21.5.2021	Non-disjunction of sex-chromosome in Drosophila; Sex-linked and sex influenced inheritance.
22.5.2021	Extra chromosomal and cytoplasmic inheritance: Kappa particles in Paramecium, Shell coiling in snails. Milk factor in mice
23.5.2021	<b>SUNDAY</b>
24.5.2021	

25.5.2021	
26.5.2021	
27.5.2021	Topic continued
28.5.2021	Test/Assignment
29.5.2021	<b>UNIT-III</b> Multiple allelism: Eye colour in Drosophila; A, B, O blood group in man.
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Human genetics: Human karyotype, Chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic and dizygotic twins.
4.6.2021	Topic continued
5.6.2021	Inborn errors of metabolism (Alcaptonuria, Phenylketonuria, Albinism, sickle-cell anaemia).
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Topic continued
11.6.2021	Test/Assignment
12.6.2021	<b>UNIT-IV</b> Nature and function of genetic material; Structure and type of nucleic acids; Protein synthesis
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	spontaneous and induced (chemical and radiations) mutations; gene mutations; chemical basis of mutations; transition, transversion,
18.6.2021	Topic continued
19.6.2021	Topic continued
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	structural chromosomal aberrations (deletion, duplication, inversion and translocation)
26.6.2021	Topic continued
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Topic continued
02.7.2021	Numerical aberrations (autopolyploidy, euploidy and polyploidy in animals)
03.7.2021	Topic continued
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Topic continued
9.7.2021	Applied genetics: Eugenics, eugenics and eugenics

10.7.2021	genetic counseling, pre-natal diagnostics
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	DNA-finger printing, transgenic animals
16.7.2021	Topic continued
17.7.2021	Revision
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Revision
23.7.2021	Revision
24.7.2021	Test/Assignment
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Kajal Verma**

**Class and Section: MSc. Chemistry 4th Semester**

**Subject: Inorganic special 6**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 24**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction to metals in medicine
13.4.2021	Biochemical bases of essential metal deficient diseases
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Iron copper and zinc deficiencies and their therapies
16.4.2021	Carcinogenic ligands
17.4.2021	Carcinostatic ligands
18.4.2021	<b>SUNDAY</b>
19.4.2021	Zinc and tumour growth and inhibition
20.4.2021	Anticancer activity
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Mechanism of platinum complexes
23.4.2021	Anticancer activity of Rhodium
24.4.2021	Copper and gold complexes
25.4.2021	<b>SUNDAY</b>
26.4.2021	Anticancer activity of Selenium
27.4.2021	Antibacterial properties of metal complexes
28.4.2021	Antiviral activity of metal complexes
29.4.2021	Polyamino carboxylic acid
30.4.2021	Polyethylene amines as chelating agents
01.5.2021	Revision
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test
04.5.2021	Miscellaneous application of inorganic compounds as medicines
05.5.2021	Drugs in hypo activity of thyroids
06.5.2021	Drugs in hyper activity of thyroids
07.5.2021	Inorganic drugs in dental carries
08.5.2021	Clinical disorders of alkali earth metals
9.5.2021	<b>SUNDAY</b>
10.5.2021	Clinical disorders of alkaline earth metal and their remedies
11.5.2021	Lithium drugs in psychiatry
12.5.2021	Revision
13.5.2021	Test
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Introduction to heavy metals in biological systems
16.5.2021	<b>SUNDAY</b>
17.5.2021	Toxicity of heavy metals and their detoxification
18.5.2021	Role of selenium in biological system with reference to essentiality and toxicity
19.5.2021	Mechanism of metal ion induced toxicity
20.5.2021	Interaction between orally administered drugs
21.5.2021	Metal ions in gut
22.5.2021	Revision
23.5.2021	<b>SUNDAY</b>
24.5.2021	Test
25.5.2021	Introduction to ligand therapy
26.5.2021	Ligand induced toxicity
27.5.2021	Interference with haemoglobin in oxygen transport system
28.5.2021	Interference with metallo- enzymes
29.5.2021	Beneficial effects of ligand chelation
30.5.2021	<b>SUNDAY</b>

31.5.2021	Carcinogenic ligands
01.6.2021	Carcinostatic ligands
02.6.2021	Alkylating agents as anticancer drugs
03.6.2021	Thiosemicarbazones as anticancer drugs
4.6.2021	Revision
5.6.2021	Test
6.6..2021	<b>SUNDAY</b>
7.6.2021	Macrocyclic antibiotic ligands
8.6..2021	Prodable mechanism of the drug
9.6.2021	Antiviral activity of chelating agents
10.6.2021	Aspirin chelation
11.6.2021	Drugs where chelation and therapeutic activity are unrelated
12.6.2021	Revision
13.6.2021	<b>SUNDAY</b>
14.6..2021	Test
15.6.2021	Introduction to Vitamins
16.6.2021	Vitamin A
17.6.2021	Vitamin D
18.6.2021	Vitamin E
19.6.2021	Vitamin K
20.6.2021	<b>SUNDAY</b>
21.6.2021	Vitamin B complex
22..6.2021	Vitamin B1 thiamine
23.6.2021	Vitamin B2 riboflavin
24.6.2021	Vitamin B3 folic acid
25.6.2021	Vitamin B5 B6
26.6.2021	Vitamin B12
27.6.2021	<b>SUNDAY</b>
28.6.2021	Vitamin H ,C,P
29.6.2021	Role of metal ions in biology
30.6.2021	Introduction to dietary minerals
01.7.2021	Calcium
02.7.2021	Magnesium
03.7.2021	Iron
4.7.2021	<b>SUNDAY</b>
5.7.2021	Copper
6.7..2021	Zinc
7.7.2021	Cobalt
8.7..2021	Manganese
9.7.2021	Radio pharmacology
10.7.2021	Nuclear medicine
11.7.2021	<b>SUNDAY</b>
12.7.2021	Radioiodine-131
13.7.2021	Technetium-99
14.7..2021	Gallium scan
15.7.2021	Indium scan
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Ms. Kajal Verma**

**Class and Section: MSc. Final year**

**Subject: environmental chemistry**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 1**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Introduction to atmosphere
28.5.2021	
29.5.2021	
30.5.2021	
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Environmental segments
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021 to 30.6.2021	University exam
01.7.2021	Composition of atmosphere
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Earth's radiation balance
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Particulates, ions, radicals, and their formation
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Chemical and photochemical reactions in the atmosphere
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	
29.7.2021	Air pollutants, oxides of C,N,S and their effects
30.7.2021	
31.7.2021	
01.8.2021	<b>SUNDAY</b>

02.8.2021	
03.8.2021	
4.8.2021	
5.8.2021	Acid rain, smog formation
6.8..2021	
7.8.2021	
8.8..2021	<b>SUNDAY</b>
9.8.2021	
10.8.2021	
11.8.2021	
12.8.2021	Green house effect global warming and ozone depletion
13.8.2021	
14.8..2021	
15.8.2021	<b>SUNDAY</b>
16.8.2021	
17.8.2021	
18.8.2021	
19.8.2021	Analytical methods for measuring air pollutants, continuous monitoring instruments
20.8.2021	Mohrram
21.8.2021	
22..8.2021	<b>SUNDAY</b>
23.8.2021	
24.8.2021	



**Name of the Assistant/Associate Professor: Ms. Savita Nailwal**  
**Class and Section: B.Sc.(Med) 4<sup>th</sup> semester& section A&B**  
**Subject: life & Biodiversity of chordates(4.1)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 27**  
**Note:-Teachers don't have their respective classes on the vacant days**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Discussion regarding syllabus
16.4.2021	Origin and evolutionary tree
17.4.2021	Topic Continued
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Type study of frog
23.4.2021	Topic Continued
24.4.2021	Topic Continued
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Topic Continued
30.4.2021	Topic Continued
01.5.2021	Topic Continued
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Parental care in amphibia
07.5.2021	Topic Continued
08.5.2021	Test /Revision
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Type study of lizard
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Topic Continued
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Topic Continued
21.5.2021	Topic Continued
22.5.2021	Origin,Evolutionary tree
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Extinct reptiles
28.5.2021	Poisonous and non – poisonous snakes
29.5.2021	Poison apparatus in snakes
30.5.2021	<b>SUNDAY</b>

31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Test/ Revision
4.6.2021	Type study of pigeon
5.6.2021	Topic Continued
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Topic Continued
11.6.2021	Topic Continued
12.6.2021	Topic Continued
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Flight adaptation
18.6.2021	Topic Continued
19.6.2021	Topic Continued
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Principles of aerodynamics in bird flight
26.6.2021	Topic Continued
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Migration in birds
02.7.2021	Topic Continued
03.7.2021	Test / Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Classification
9.7.2021	Topic Continued
10.7.2021	Type study of rat
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Topic Continued
16.7.2021	Topic Continued
17.7.2021	Topic Continued
18.7.2021	<b>SUNDAY</b>
19.7.2021	

20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Topic Continued
23.7.2021	Adaptive radiation of mammals and Dentition
24.7.2021	Test/Revision

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<b>Name of the Assistant/Associate Professor: Ms. Savita Nailwal</b>	
<b>Class and Section: Bsc medical 4<sup>th</sup> Semester, Section A,B</b>	
<b>Subject: Mammalian physiology -2</b>	
<b>Mode of Teaching: Online &amp;Offline</b>	
<b>Lectures Per Week: 27</b>	
<b>Note:-Teachers don't have their respective classes on the vacant days</b>	
<b>Date</b>	<b>Topic to be Covered</b>

12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Discussion regarding book
16.4.2021	Introduction to syllabus
17.4.2021	Origin ,conduction and regulation of heart beat
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Discussion regarding book and introduction to syllabus
23.4.2021	Origin,conduction and regulation of heart beat
24.4.2021	Topic Continued
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Cardiac cycle,electrocardiogram,cardiacoutput
30.4.2021	Fluid pressure and flow pressure and flow pressure in closed and open circulatory system
01.5.2021	Topic Continued
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Composition and functions of blood & lymph
07.5.2021	Mechaanism of coagulation of blood
08.5.2021	Coagulation factors,anticoagulants,haemopoiesis
09.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Test/Revision
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Exchange of respiratory gases
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Transport of gases,lungs air volumes
21.5.2021	Oxygen dissociation curve of haemoglobin
22.5.2021	Bohr's effect,Haburger's phenomenon
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Control/Regulation of respiration
28.5.2021	Test/Revision
29.5.2021	Patterns of excretory products
30.5.2021	<b>SUNDAY</b>

31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Ornithine cycle for urea formation in liver,urine formation
4.6.2021	Counter- current mechanism of urine concentration,osmoregulation,micturition
5.6.2021	Test/Revision
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Nature,origin and propagation of nerve impulse along with medullated& non - medullated nerve fibre
11.6.2021	Conduction of nerve impulse across synapse
12.6.2021	Test /Revision
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Structure and mechanism of hormone action
18.6.2021	Physiology of hypothalamus,pituitary ,thyroid,parathyroid
19.6.2021	Adrenal,pancreaseand gonads
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Spermatogenesis, Capacitation of spermatozoa
26.6 2021	Ovulation,formation of corpus luteum
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Oestrous-anoestrous cycle
02.7.2021	Menstrual cycle in human
03.7.2021	Fertilization
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7.2021	
7.7.2021	
8.7..2021	Implantation and gestation
9.7.2021	Topic Continued
10.7.2021	Topic Continued
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Topic Continued
16.7.2021	Topic Continued
17.7.2021	

18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Revision
23.7.2021	Revision
24.7.2021	Test

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**Name of the Assistant/Associate Professor: Ms. Pooja Khatana**

**Class and Section: M.Sc.-4<sup>th</sup> Semester**

**Subject: Inorganic special v (17CHE24GA2)**

**Mode of Teaching: Online & Offline**

**Lectures Per Week: 8 theory and 16 practicals**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction of polarography

13.4.2021	Electron at and across
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Electron at and across
16.4.2021	Electro-chemical and chemical reactions
17.4.2021	Basic principle of polarography
18.4.2021	<b>SUNDAY</b>
19.4.2021	Types of current
20.4.2021	Residual current
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Diffusion current
23.4.2021	Migration current
24.4.2021	Limiting current
25.4.2021	<b>SUNDAY</b>
26.4.2021	Saturated calomel electrode
27.4.2021	Dropping mercury electrode
28.4.2021	Ilkovic equation
29.4.2021	Koutecky equation
30.4.2021	Difference of illkovic and koutecky equation
01.5.2021	Revision
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test
04.5.2021	Polarographic waves
05.5.2021	Anodic waves
06.5.2021	Cathodic wave
07.5.2021	Half wave potential
08.5.2021	Oxygen interference
9.5.2021	<b>SUNDAY</b>
10.5.2021	Maxima
11.5.2021	Maxima
12.5.2021	Functions of supporting electrolyte
13.5.2021	Revision
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Test
16.5.2021	<b>SUNDAY</b>
17.5.2021	Determination of stability constant of dc polarography
18.5.2021	Catalytic hydrogen wave
19.5.2021	Catalytic hydrogen wave
20.5.2021	Principle of amperometric titration
21.5.2021	Principle of amperometric titration
22.5.2021	Types of titration curves
23.5.2021	<b>SUNDAY</b>
24.5.2021	Apparatus and techniques
25.5.2021	Revision
26.5.2021	Test
27.5.2021	Hanging mercury drop electrode
28.5.2021	Rotating dropping mercury electrode
29.5.2021	Platinum electrode
30.5.2021	<b>SUNDAY</b>
31.5.2021	Gold electrode
01.6.2021	Carbon paste electrode

02.6.2021	Glassy carbon electrode
03.6.2021	Graphite electrode
4.6.2021	Graphite electrode
5.6.2021	Revision
6.6..2021	<b>SUNDAY</b>
7.6.2021	Test
8.6..2021	Ac polarography
9.6.2021	Superimposed ac polarography
10.6.2021	Superimposed ac polarography
11.6.2021	Introduction of voltammetry
12.6.2021	Voltammetry in quiet solution
13.6.2021	<b>SUNDAY</b>
14.6..2021	Voltammetry in stirred solution
15.6.2021	Square wave polarography
16.6.2021	Square wave polarography
17.6.2021	Pulse polarography
18.6.2021	Normal pulse polarography
19.6.2021	Differential pulse polarography
20.6.2021	<b>SUNDAY</b>
21.6.2021	Revision
22..6.2021	Test
23.6.2021	Chronoamperometry
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Chronoamperometry
26.6.2021	Chronopotentiometry
27.6.2021	<b>SUNDAY</b>
28.6.2021	Chronopotentiometry
29.6.2021	Coulometry
30.6.2021	Revision
01.7.2021	Test
02.7.2021	Anodic stripping voltammetry
03.7.2021	Concentration process
4.7.2021	<b>SUNDAY</b>
5.7.2021	Rest period
6.7..2021	Stripping process
7.7.2021	Cathodic stripping voltammetry
8.7..2021	Anodic deposition
9.7.2021	Cathodic resolution
10.7.2021	Applications
11.7.2021	<b>SUNDAY</b>
12.7.2021	Ion selective electrode
13.7.2021	Types of ISE
14.7..2021	Types of ISE
15.7.2021	Applications
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Ms. Pooja Khatana**

**Class and Section: M.Sc.-2<sup>nd</sup> Semester**

**Subject: General Spectroscopy**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 2**

**Note: -Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	Introduction of spectroscopy

25.5.2021	Electromagnetic radiation and its interaction with matter
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	
31.5.2021	Region of the spectrum
01.6.2021	Resolving power
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Width of spectral transition
8.6..2021 TO 30.6.2021	University exam
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Intensity of spectral transition
6.7..2021	Rotation spectra of diatomic molecule
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Spectrum of non- rigid rotor
13.7.2021	Isotopic effect
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Rotation spectra of polyatomic molecules
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Simple harmonic vibration
27.6 2021	Anharmonic vibration
28.7.2021	
29.7.2021	
30.7.2021	
31.7.2021	
01.8.2021	<b>SUNDAY</b>
02.8.2021	Diatomic vibrating rotor
03.8.2021	Interaction of vibration and rotation

4.8.2021	
5.8.2021	
6.8..2021	
7.8.2021	
8.8..2021	<b>SUNDAY</b>
9.8.2021	Vibration spectra of polyatomic molecules
10.8.2021	Analysis by infrared technique
11.8.2021	
12.8.2021	
13.8.2021	
14.8..2021	
15.8.2021	<b>SUNDAY</b>
16.8.2021	Vibrational course structure
17.8.2021	Rotational fine structure
18.8.2021	
19.8.2021	
20.8.2021	Mohrram
21.8.2021	
22..8.2021	<b>SUNDAY</b>
23.8.2021	Frank codon principle and dissociation energy and products
24.8.2021	Fortrat diagram

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**Name of the Assistant/Associate Professor: Ms. Komal Sharma**

**Class and Section: B.Sc.( Medical) 6<sup>th</sup> semester, Section-B**

**Subject: Physical Chemistry (CH-602)**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction ofElectronic Spectrum

13.4.2021	Concept of potential energy curves for antibonding or bonding molecular orbital
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	qualitative description of selection rules and Frank -Condon principle
20.4.2021	qualitative description of sigma or pi and n molecular orbital(MO) their energy level and respective transitions.
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	<b>Photochemistry:</b> Interaction of radiation with matter ,difference between thermal and photochemical process, laws of photochemistry:
27.4.2021	Grotthus-Draper law ,stark Einstein law, Quantum yield, photosensitizers and inhibitors.
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test of Electronic spectrum
04.5.2021	Jablonski diagram (Qualitative description of fluorescence ,phosphorescence ,non radiative process)
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	<b>Solutions:</b> Ideal and non- ideal solution, Methods of expressing concentration of solution ,activity and activity coefficient
11.5.2021	Colligative properties ,Raoult's law , Relative lowering of vapour pressure, Molecular weight determination
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Osmosis law of osmotic pressure and its measurement ,determination of molecular weight from osmotic pressure
18.5.2021	Test of photochemistry and assignment
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Elevation in boiling point and its experimental determination and calculation of molecular weight.
25.5.2021	depression in freezing point and its experimental determination and calculation of

	molecular weight.
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Abnormal molar mass , van'thoff factor and its applications
01.6.2021	TEST: Colligative properties and assignment
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	<b>Phase Equilibrium</b> : statement and meaning of the terms –phase, component, degree of freedom
8.6..2021	thermodynamic derivation of Gibbs phase rule
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Phase equilibria of one component system: Water system
15.6.2021	Phase equilibria of one component system:sulphur system
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Phase equilibria of two component system solid-liquid equilibria
22..6.2021	Simple eutectic, Lead-silver system, Desilverisation of lead
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Doubt class
29.6.2021	TEST: Phase equilibrium and assignment
30.6.2021	

01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7..2021	Revision
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>

12.7.2021	Revision
13.7.2021	Revision
14.7..2021	
15.7.2021	
16.7.2021	

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<b>Name of the Assistant/Associate Professor: Ms. Komal Sharma</b>	
<b>Class and Section: B.Sc. (Non-Med) 2<sup>nd</sup> Semester</b>	
<b>Subject: Physical Chemistry ( CH-202)</b>	
<b>Mode of Teaching: Online &amp;Offline</b>	
<b>Lectures Per Week: 2</b>	
<b>Note:-Teachers don't have their respective classes on the vacant days.</b>	
<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>

15.4.2021	
16.4.2021	<b>Kinetics-I:</b> Rate of reaction and rate equation
17.4.2021	Factors affecting the rate of reaction – concentration, temperature , pressure, solvent, light and catalyst
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Order of reaction, integrated rate expression for zero order and its half life period
24.4.2021	integrated rate expression for first order and its half life period
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	integrated rate expression for second order and its half life period
01.5.2021	integrated rate expression for third order and its half life period
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	methods of determination of order of reaction and numericals practice
08.5.2021	<b>Kinetics-II:</b> Effect of temperature on rate of reaction- Arrhenius equation and numerical practice
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Test of kinetic-I and assignment
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	Theories of reaction rate- simple collision theory for unimolecular collision
22.5.2021	Collision theories for bimolecular collision
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Transition state theory of bimolecular reaction
29.5.2021	<b>Electrochemistry:</b> Introduction, electrolytic conduction and factor affecting electrolytic conduction
30.5.2021	<b>SUNDAY</b>
31.5.2021	

01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	Specific conductance , molar conductance, and equivalent conductance and relationship among them
5.6.2021	Variation of equivalent, molar and specific conductance with concentration
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	Arrhenius theory of ionization , Ostwald's law of dilution
12.6.2021	Test
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Debye Huckel Onsager's equation for strong electrolyte
19.6.2021	Definition of Transport number and determination by hittorfs methods
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Kohlrausch'law , calculation of molar ionic conductance
26.6 2021	Effect of viscosity , temperature and pressure on molar ionic conductance, application of kohlarausch's law
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Application of conductivity measurements: determination of degree of dissociation, determination of $K_a$ of acids
03.7.2021	Determination of solubility product of sparingly soluble salt
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Conductometric titration
10.7.2021	Definition of pH and $pK_a$ , Buffer solution, buffer action
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	Henderson- Hazel equation, buffer mechanism of buffer action
17.7.2021	Test of electrochemistry

18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	Numerical practice
24.7.2021	Test of electrochemistry II
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Komal Sharma**

**Class and Section: B.Sc. (Med) 2<sup>nd</sup> Semester ,Section-A**

**Subject: Physical Chemistry (CH-202)**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	<b>Kinetics-1: Rate of reaction and rate equation</b>

16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Factors affecting the rate of reaction – concentration, temperature , pressure, solvent, light and catalyst
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Order of reaction, integrated rate expression for zero order and its half life period
29.4.2021	integrated rate expression for first order and its half life period
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	integrated rate expression for second order and its half life period
06.5.2021	integrated rate expression for third order and its half life period
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	methods of determination of order of reaction and numericals practice
13.5.2021	<b>Kinetics-II:</b> Effect of temperature on rate of reaction- Arrhenius equation and numerical practice
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	TEST OF KINETIC-I and assignment
20.5.2021	Theories of reaction rate- simple collision theory for unimolecular collision
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Collision theories for bimolecular collision
27.5.2021	Transition state theory of bimolecular reaction
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	<b>Electrochemistry:</b> Introduction, electrolytic conduction and factor affecting electrolytic

	conduction
03.6.2021	Specific conductance , molar conductance, and equivalent conductance and relationship among them
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Variation of equivalent, molar and specific conductance with concentration
10.6.2021	Arrhenius theory of ionization , Ostwald's law of dilution
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Test
17.6.2021	Debye Huckel Onsager's equation for strong electrolyte
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Definition of Transport number and determination by hittorfs methods
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Kohlrausch'law , calculation of molar ionic conductance
01.7.2021	Effect of viscosity , temperature and pressure on molar ionic conductance, application of kohlarausch's law
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Application of conductivity measurements: determination of degree of dissociation, determination of $K_a$ of acids
8.7..2021	Determination of solubility product of sparingly soluble salt
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Conductometric titration
15.7.2021	Definition of pH and $pK_a$ , Buffer solution, buffer action
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>

19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Henderson- Hazel equation, buffer mechanism of buffer action
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	Test of electrochemistry

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<b>Name of the Assistant/Associate Professor: Ms. Komal Sharma</b>	
<b>Class and Section: B.Sc. (Med) 2<sup>nd</sup> Semester, Section-B</b>	
<b>Subject: Physical Chemistry (CH-202)</b>	
<b>Mode of Teaching: Online &amp;Offline</b>	
<b>Lectures Per Week: 2</b>	
<b>Note:-Teachers don't have their respective classes on the vacant days.</b>	
<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	<b>Kinetics-1:</b> Rate of reaction and rate equation
13.4.2021	Factors affecting the rate of reaction – concentration, temperature, pressure, solvent, light and catalyst
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	

16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Order of reaction, integrated rate expression for zero order and its half life period
20.4.2021	integrated rate expression for first order and its half life period
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	integrated rate expression for second order and its half life period
27.4.2021	integrated rate expression for third order and its half life period
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	methods of determination of order of reaction and numericals practice
04.5.2021	<b>Kinetics-II:</b> Effect of temperature on rate of reaction- Arrhenius equation and numerical practice
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	TEST OF KINETIC-I and assignment
11.5.2021	Theories of reaction rate- simple collision theory for unimolecular collision
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Collision theories for bimolecular collision
18.5.2021	Transition state theory of bimolecular reaction
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	<b>Electrochemistry:</b> Introduction, electrolytic conduction and factor affecting electrolytic conduction
25.5.2021	Specific conductance , molar conductance, and equivalent conductance and relationship among them
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Variation of equivalent, molar and specific conductance with concentration
01.6.2021	Arrhenius theory of ionization , Ostwald's law of dilution

02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Test
8.6..2021	Debye Huckel Onsager's equation for strong electrolyte
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Definition of Transport number and determination by hittorfs methods
15.6.2021	Kohlrausch'law , calculation of molar ionic conductance
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Effect of viscosity , temperature and pressure on molar ionic conductance, application of kohlarausch's law
22..6.2021	Application of conductivity measurements: determination of degree of dissociation, determination of $K_a$ of acids
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Determination of solubility product of sparingly soluble salt
29.6.2021	Conductometric titration
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Definition of pH and $pK_a$ , Buffer solution, buffer action
6.7..2021	Henderson- Hazel equation, buffer mechanism of buffer action
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Test of electrochemistry
13.7.2021	Numerical practice
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Test of electrochemistry II

20.7.2021	REVISION
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	REVISION
27.6.2021	REVISION
28.7.2021	

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Name of the Assistant/Associate Professor: Ms. Reeta Kumari

Class and Section: B.Sc.( Non.Med.)6<sup>th</sup> semester, Sec-A

Subject: Atomic, Molecular And Laser physics, PHY-601

Mode of Teaching: Online & Offline

Lectures Per Week: 03

Note:- Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction about syllabus
16.4.2021	Introduction about vector atom model
17.4.2021	Vector atom model

18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Penetrating and non penetrating orbits and quantum numbers
23.4.2021	Spinning of electron and special quantisation
24.4.2021	Test
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Spin orbit interaction and doublet term separation
30.4.2021	Spin orbit interaction for non penetrating orbits and penetrating orbits
01.5.2021	Energy levels and spectral lines in different series of alkali metals
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Various coupling scheme
07.5.2021	Interaction energy in L-S coupling
08.5.2021	Interaction energy in L-S coupling
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Interaction energy in jj coupling
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Numerical practice
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Zeeman effect (normal Zeeman effect)
21.5.2021	Anomalous Zeeman effect
22.5.2021	Test
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Zeeman pattern of D1 and D2 lines of Na atom
28.5.2021	Paschen effect for single valence electron system back
29.5.2021	Paschen back effect of principal series doublet of sodium atom
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Stark effect and weak field Stark effect in Hydrogen atom
4.6.2021	Electronic states of diatomic molecules, rotational spectra in the far infrared region
5.6.2021	Vibrational spectra in infrared region and simple harmonic oscillator model
6.6.2021	<b>SUNDAY</b>

7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Raman effect and stokes and anti stokes lines
11.6.2021	Numerical practice
12.6.2021	Test
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Introduction of laser
18.6.2021	Properties of laser
19.6.2021	Properties of laser
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Einstein's coefficient
26.6 2021	Revision
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Life time of level, Momentum transfer, Possibility of amplification
9.7.2021	Kinetics of optical absorption, Threshold condition
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Laser pumping, Ruby laser
16.7.2021	He-Ne laser, application of laser

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**Name of the Assistant/Associate Professor: Ms. Reeta Kumari**  
**Class and Section: B.Sc. ( Non.Med.)-6<sup>th</sup>Semester, Section-A**  
**Subject: Atomic, Molecular and Laser physics, PHY-601**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 03**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction about syllabus
13.4.2021	Math practical
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>

19.4.2021	Introduction about vector atom model
20.4.2021	Vector atom model
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Penetrating and non penetrating orbits and quantum numbers
27.4.2021	Spinning of electron and special quantisation
28.4.2021	Test
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Spin orbit interaction and doublet term separation
04.5.2021	Spin orbit interaction for non penetrating orbits and penetrating orbits
05.5.2021	Energy levels and spectral lines in different series of alkali metals
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Various coupling scheme
11.5.2021	Interaction energy in L-S coupling
12.5.2021	Interaction energy in L-S coupling
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Interaction energy in jj coupling
18.5.2021	Numerical practice
19.5.2021	Revision
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Zeeman effect (normal Zeeman effect)
25.5.2021	Anomalous Zeeman effect
26.5.2021	Test
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Zeeman pattern of D1 and D2 lines of Na atom
01.6.2021	Paschen back effect for single valence electron system
02.6.2021	Paschen back effect of principal series doublet of sodium atom
03.6.2021	
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	Stark effect and weak field Stark effect in Hydrogen atom

8.6..2021	Electronic states of diatomic molecules,rotational spectra in the far infrared region
9.6.2021	Vibrational spectra in infrared region andsimple harmonic oscillator model
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Raman effect and stokes and anti stokes lines
15.6.2021	Numerical practice
16.6.2021	Test
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Introduction of laser
22..6.2021	Properties of laser
23.6.2021	Properties of laser
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Einstein's coefficient
29.6.2021	Revision
30.6.2021	Test
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Momentum transfer, Possibility of amplification
6.7..2021	Life time of level, Kinetics of optical absorption and Threshold condition
7.7.2021	Laser pumping, Ruby laser
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
13.7.2021	He-Ne laser
14.7..2021	He-Ne laser
15.7.2021	Application of laser
16.7.2021	

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Name of the Assistant/Associate Professor: Ms. Reeta Kumari

Class and Section: B.Sc. ( Non-Med.)4<sup>th</sup> semester ,Section-A

Subject: Optics, PHY-402

Mode of Teaching: Online &Offline

Lectures Per Week: 03

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	Introduction about syllabus
13.4.2021	Physics practical
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Interference by division of amplitude

20.4.2021	Colour of thin films
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Wedge shaped film
27.4.2021	Newtons's ring
28.4.2021	Test
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Michelson's interferometer
04.5.2021	<b>Application of interferometers</b>
05.5.2021	Test
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Fresnel's diffraction
11.5.2021	Fresnel's half period zones
12.5.2021	Zone plate
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Diffraction at straight edge
18.5.2021	Rectangular slit
19.5.2021	Circular aperture
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Fraunhoffer diffraction
25.5.2021	One slit diffraction
26.5.2021	Two slit diffraction
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	N slit diffraction
01.6.2021	Plane transmission grating spectrum
02.6.2021	Dispersive power of grating
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Limit of resolution
8.6..2021	Rayleigh's criterion

9.6.2021	Resolving power of telescope
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Revision
15.6.2021	Numaericalprcatise
16.6.2021	Test
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Resolving power of grating
22..6.2021	Polarization
23.6.2021	Double refraction
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Polarization by reflection
29.6.2021	Polarization by scattering
30.6.2021	Malus law
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Phenomenon of double refraction
6.7..2021	Huygen's wave theory of double refraction(normal and oblique incidence)
7.7.2021	Analysis of polarization of light
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Nicol prism,quarter wave plate and half wave plate
13.7.2021	Production and detection of plane polarisd light
14.7..2021	Circularly polarized light, Elliptically polarized light
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Optical activity,fresnel's theory of rotation
20.7.2021	Specific rotation, Polarimeter(half shade and biquartz)
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Dr. Shipra Rani Jha**  
**Class and Section: B.Sc. Medical , 2<sup>nd</sup> Semester**  
**Subject: Botany (Diversity of Archegoniales)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to Syllabus
13.4.2021	General Characters of Bryophytes
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Classification of Bryophytes
20.4.2021	Alternation of generation in Bryophytes

21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Alternation of generation in Bryophytes
27.4.2021	Evolution of Sporophytes
28.4.2021	Evolution of Sporophytes and Economic importance
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Test (Evolution of Sporophytes)
04.5.2021	Structure and Reproduction of Marchantia
05.5.2021	Structure and Reproduction of Marchantia
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Structure and Reproduction of Marchantia
11.5.2021	Structure and Reproduction of Anthoceros
12.5.2021	Structure and Reproduction of Anthoceros
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Structure and Reproduction of Funaria
18.5.2021	Structure and Reproduction of Funaria
19.5.2021	Assignment
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	General Characters of Pteridophytes
25.5.2021	General Characters of Pteridophytes
26.5.2021	Classification of Pteridophytes
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Alternation of generation
01.6.2021	Heterospory, Apospory, Apogamy
02.6.2021	Economic Importance of Pteridophytes
03.6.2021	
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	Test (Marchantia&Anthoceros)
8.6.2021	General account of Stellar evolution
9.6.2021	General account of Stellar evolution

10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Assignment
15.6.2021	Oral test of unit 2
16.6.2021	Structure and Reproduction of Rhynia
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Structure and Reproduction of Rhynia
22..6.2021	Structure and Reproduction of Rhynia
23.6.2021	Structure and Reproduction of Selaginella
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Structure and Reproduction of Selaginella
29.6.2021	Structure and Reproduction of Selaginella
30.6.2021	Structure and Reproduction of Equisetum
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Structure and Reproduction of Equisetum
6.7..2021	Test (Selaginella)
7.7.2021	Structure and Reproduction of Pteris
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Structure and Reproduction of Pteris
13.7.2021	Structure and Reproduction of Pteris
14.7..2021	Test (Equisetum)
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Assignment
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Test
27.6 2021	Revision
28.7.2021	Revision



**Name of the Assistant/Associate Professor: Dr. Shipra Rani Jha**

**Class and Section: B.Sc. Medical 2<sup>nd</sup> Semester**

**Subject: Botany (Genetics)**

**Mode of Teaching: Online & Offline**

**Lectures Per Week: 27**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to Syllabus
13.4.2021	DNA- the Genetic material
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Structure Of DNA
20.4.2021	Structure Of DNA
21.4.2021	<b>RAM NAVMI</b>

22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Replication Of DNA
27.4.2021	DNA-Protein interaction
28.4.2021	The Nucleosome model
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Genetic Code
04.5.2021	Satellite and Repetitive DNA
05.5.2021	Linkage Analysis
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Mendelian Genetics
11.5.2021	Law of Segregation and Independent Assortment
12.5.2021	Monohybrid, Dihybrid cross, Reciprocal cross
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Intergenic and Intragenic interaction
18.5.2021	Concept of Extra - Nuclear Inheritance
19.5.2021	Assignment
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Presence and function of Mitochondrial DNA
25.5.2021	Plastid DNA
26.5.2021	Plasmids
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Test (Unit 1)
01.6.2021	Concept of Mutation (Spontaneous and induced)
02.6.2021	Transposable elements
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	DNA Damage and Repair
8.6..2021	Assignment
9.6.2021	Modern concept of Gene
10.6.2021	

11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Modern concept of Gene
15.6.2021	RNA: Structure and Functions
16.6.2021	RNA: Structure and Functions
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Ribosomes
22..6.2021	Transfer of genetic information
23.6.2021	Transcription
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Translation
29.6.2021	Translation
30.6.2021	Test
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Structure of proteins
6.7..2021	Regulation of gene expression in prokaryotes
7.7.2021	Regulation of gene expression in prokaryotes
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Regulation of gene expression in Eukaryotes
13.7.2021	Regulation of gene expression in Eukaryotes
14.7..2021	Test (Unit 3)
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Assignment
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Test
27.6 2021	Revision
28.7.2021	Revision

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**Name of the Assistant/Associate Professor: Ms. Kajal Gaur**  
**Class and Section: B.Sc.(Non- Med) 6<sup>th</sup>Semester, Section- B**  
**Subject: Physical Chemistry (CH-305)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction
13.4.2021	<b>Electronic Spectrum</b> : Concept of potential energy curves for antibonding or bonding molecular orbital, qualitative description of selection rule
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Frank condon principle, sigma or pi molecular orbital
20.4.2021	<b>Photochemistry:</b> Interaction of radiation with matter ,difference between thermal and photochemical process , laws of photochemistry

21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Draper laws ,stark Einstein law and jablonski diagram
27.4.2021	Test
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Qualitative description of fluorescence ,phosphorescence ,non radiative process, Quantum yield
04.5.2021	photosensitized reactions- transfer process , Dilute Solution and Colligative Properties:Ideal and non ideal solution, dilute solution
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Methods of concentration of solution ,activity and its coefficient
11.5.2021	Colligative properties ,Raoults law
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Relative lowering of vapour pressure, Molecular weight determination
18.5.2021	Osmosis law of osmotic pressure and its measurement ,determination of molecular weight from osmotic pressure
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Test of photochemistry and assignment
25.5.2021	<b>Solutions:</b> Elevation in boiling point and depression in freezing point
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Thermodynamic derivation of relation between molecular weight and elevation in boiling point
01.6.2021	Depression in freezing point , Experimental methods for determining various colligative properties
02.6.2021	
03.6.2021	
4.6.2021	

5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Abnormal molar mass , degree of dissociation
8.6..2021	Degree of association of solutes
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	TEST: Colligative properties and assignment
15.6.2021	<b>Phase Equilibrium</b> : statement and meaning of the term phase component
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Degree of freedom , thermodynamic derivation , Gibbs phase rule
22..6.2021	Phase equilibria of one component system, Water and sulphur system
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Phase equilibria of two component system solid-liquid equilibria
29.6.2021	Simple eutectic, Lead-silver system
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Desilverisation of lead
6.7..2021	TEST: Phase equilibrium and assignment
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	Revision
14.7..2021	
15.7.2021	
16.7.2021	

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<b>Name of the Assistant/Associate Professor: Ms. Kajal Gaur</b>	
<b>Class and Section: B.Sc (Non-Med ) 2<sup>nd</sup>Semester</b>	
<b>Subject: Organic Chemistry</b>	
<b>Mode of Teaching: Online &amp;Offline</b>	
<b>Lectures Per Week: 2</b>	
<b>Note:-Teachers don't have their respective classes on the vacant days..</b>	
<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	<b>Unit 1 -Alkenes :</b> IUPAC naming, preparation of alkenes, chemical reactions of alkenes, mechanism of hydrogenation
13.4.2021	Physical properties and relative stability of alkenes, electrophilic and free radical addition ,markovnikoffsrule
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Hydroboration and oxidation, oxymercuration and reduction
20.4.2021	Ozonolysis and hydration, hydroxylation and oxidation with KMnO <sub>4</sub>
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	

23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Test
27.4.2021	Assignment
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	<b>Chapter 2 : ARENES AND AROMATICITY</b> IUPAC naming, aromaticity, huckel rule ,aromatic ions
04.5.2021	Mechanism of sulphonation and friedel craft reaction energy profile diagram
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Activating deactivating substituents and orientation
11.5.2021	Revision class
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test
18.5.2021	<b>Chapter 3 : DIENES AND ALKYNES</b> IUPAC naming ,classification of diene ,structure of butadiene
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Chemical reaction 1-2 and 1-4 addition
25.5.2021	Diels Alder reaction
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Revision class
01.6.2021	Test and assignment
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	<b>Alkynes : IUPAC naming structure and bonding in alkynes</b>
8.6..2021	Methods of formation of alkynes

9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Chemical reactions of alkynes, acidity of alkynes
15.6.2021	Mechanism of electrophilic and nucleophilic addition reactions
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Revision class
22..6.2021	Test or assignment
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Chapter 4 : ALKYL AND ARYL HALIDES IUPAC naming and classification of alkyl halide , methods of formation with chemical reaction
29.6.2021	mechanism and stereochemistry of SN1 and SN2 reactions with energy profile diagram
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Methods of formation and reactions of aryl halides with mechanism
6.7..2021	Relative reactivities of alkyl ,allyl,vinyl and aryl halides
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	Revision
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Test and assignment
20.7.2021	Doubt class
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Revision class

27.6.2021	Revision of whole syllabus
28.7.2021	

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<b>Name of the Assistant/Associate Professor: Ms. Kajal Gaur</b>	
<b>Class and Section: B.Sc (Medical) 6<sup>th</sup> Semester, Section-A</b>	
<b>Subject: Organic Chemistry (CH-306)</b>	
<b>Mode of Teaching: Online &amp; Offline</b>	
<b>Lectures Per Week: 2</b>	
<b>Note:-Teachers don't have their respective classes on the vacant days.</b>	
<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	INTRODUCTION
13.4.2021	Heterocyclic Compounds-I Introduction: Molecular orbital picture
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Aromatic characteristics of pyrrole, furan, thiophene and pyridine.
20.4.2021	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	

24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine
27.4.2021	Comparison of basicity of piperidine and pyrrole and assignment
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Heterocyclic Compounds-II Introduction to condensed five and six- membered heterocycles
04.5.2021	Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisherindolesynthesis,Skraup synthesis and Bischler-Napieralski synthesis
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Test
11.5.2021	Mechanism of electrophilic substitution reactions of Indole,quinoline and isoquinoline
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	<b>Organosulphur Compounds</b> Nomenclature, structural features, Methods of formation and chemical reactions of thiols.
18.5.2021	Structural features, Methods of formation and chemical reactions of thioethers, sulphonic acids, sulphonamides and sulphaguanidine.
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Synthetic detergents, alkyl and aryl sulphonates and assignment
25.5.2021	<b>Organic Synthesis via Enolates</b> Acidity of alpha-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Synthesis of ethyl acetoacetate: the Claisen condensation.
01.6.2021	Keto-enol tautomerism of ethyl acetoacetate.
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	

6.6..2021	<b>SUNDAY</b>
7.6.2021	Test
8.6..2021	<b>Synthetic Polymers:</b> Addition or chain-growth polymerization. Free radical vinylpolymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Condensation or step growth polymerization.Polyesters ,polyamides, phenol formaldehyde resins, urea formaldehyde resins
15.6.2021	Epoxy resins and polyurethanes, Natural and synthetic rubbers.
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	ASSIGNMENT
22..6.2021	<b>Amino Acids, Peptides&amp; Proteins:</b> Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Preparation of alpha -amino acids.Structure and nomenclature of peptides and proteins
29.6.2021	Classification of proteins. Peptide structure determination
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	End group analysis, selective hydrolysis of peptides. Classical peptide synthesis
6.7..2021	TEST
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision of whole syllabus
13.7.2021	Doubt Class of whole syllabus
14.7..2021	
15.7.2021	
16.7.2021	

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Name of the Assistant/Associate Professor: Ms. Kajal Gaur

Class and Section: B.Sc (Medical) 6<sup>th</sup>Semester, Section-B

Subject: Organic Chemistry (CH-306)

Mode of Teaching: Online &Offline

Lectures Per Week: 2

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	INTRODUCTION
17.4.2021	<b>Heterocyclic Compounds</b> -Introduction: Molecular orbital picture
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Aromatic characteristics of pyrrole, furan, thiophene and pyridine.
24.4.2021	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
25.4.2021	<b>SUNDAY</b>
26.4.2021	

27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine
01.5.2021	Comparison of basicity of piperidine and pyrrole and assignment
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	<b>Heterocyclic Compounds-II</b> Introduction to condensed five and six- membered heterocycles
08.5.2021	Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	TEST
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	Mechanism of electrophilic substitution reactions of Indole, quinoline and isoquinoline
22.5.2021	<b>Organosulphur Compounds</b> Nomenclature, structural features, Methods of formation and chemical reactions of thiols.
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Structural features, Methods of formation and chemical reactions of thioethers, sulphonic acids, sulphonamides and sulphaguanidine.
29.5.2021	Synthetic detergents, alkyl and aryl sulphonates and assignment
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	<b>Organic Synthesis via Enolates</b> Acidity of alpha-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
5.6.2021	Synthesis of ethyl acetoacetate: the Claisen condensation.
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6.2021	

9.6.2021	
10.6.2021	
11.6.2021	Keto-enol tautomerism of ethyl acetoacetate.
12.6.2021	TEST
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	<b>Synthetic Polymers:</b> Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.
19.6.2021	Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins, urea formaldehyde resins
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Epoxy resins and polyurethanes, Natural and synthetic rubbers.
26.6 2021	ASSIGNMENT
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	<b>Amino Acids, Peptides &amp; Proteins:</b> Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis
03.7.2021	Preparation of alpha -amino acids. Structure and nomenclature of peptides and proteins
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Classification of proteins. Peptide structure determination End group analysis, selective hydrolysis of peptides. Classical peptide synthesis
10.7.2021	Revision of whole syllabus
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	Revision of whole syllabus

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**Name of the Assistant/Associate Professor: Ms. Anita**  
**Class and Section: B.Sc. (Non med) 4th Semester, Section A**  
**Subject: Organic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week:2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction to the syllabus
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Unit 1:Infrared absorption spectroscopy Molecular vibrations ,hook's law, selection rules intensity and position of IR bands
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Measurement of IR spectrum, fingerprint region,characteristic absorption of various functional groups , Interpretation of IR spectra of simple organic compounds

29.4.2021	Application of IR spectroscopy in structure elucidation of simple organic compound
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Test or assignment
06.5.2021	Unit 2: Amines Structure and nomenclature , physical properties
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Separation of a mixture of primary secondary and tertiary amine ,Structural features affecting basicity of amine, preparation of alkyl and aryl amines: reduction of nitro compounds ,nitriles
13.5.2021	reductive amination of aldehyde and ketone compounds , Gabriel phthalimide reaction Hoffmann bromamide reaction
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Electrophilic aromatic substitution in aryl amines, reaction of amine with nitrous acid
20.5.2021	Test or Assignment
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Unit 3 Diazonium salts Mechanism of diazotization structure of benzene diazonium chloride
27.5.2021	Replacement of diazo group by H,F ,Cl, Br, I ,NO <sub>2</sub> and CN groups , Reaction of diazonium salt to hydrazines, coupling reaction and its synthetic application
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Test orAssignment
03.6.2021	Nitro compounds : preparation of nitroalkanes and nitroarenes and their chemical reaction
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	mechanism of electrophilic substitution reactions in nitro arenes and their reduction in acidic ,neutral and alkaline medium
10.6.2021	Test or Assignment

11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Unit 4 : Aldehydes and ketones nomenclature and structure of carbon in group ,synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides
17.6.2021	advantage of oxidation of alcohol with chromium trioxide , pyridinium,chlorochromate and peyridinium dichromate
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	comparison of reactivities of aldehydes and ketones ,mechanism of nucleophilic addition to carbonyl group with particular emphasis on benzoin ,aldol, perkinandknoevenzel condensation
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Continued.....
01.7.2021	Condensation with ammonia and its derivatives, witting reaction ,mannich reaction,
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Oxidation of aldehydes ,oxidation of ketones, Bayer- villiger oxidation of ketones, canninzaro reaction
8.7..2021	MPV, clemmensen , wolf-kishner,LiAlH <sub>4</sub> , and NaBH <sub>4</sub> reductions
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Revision
15.7.2021	Revision
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Test or Assignment
23.7.2021	
24.7.2021	

12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	INTRODUCTION
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	<b>Heterocyclic Compounds-I</b> Introduction: Molecular orbital picture
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Aromatic characteristics of pyrrole, furan, thiophene and pyridine.
29.4.2021	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
30.4.2021	

01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine
06.5.2021	Comparison of basicity of piperidine and pyrrole and assignment
07.5.2021	
08.5.2021	
09.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	<b>Heterocyclic Compounds-II</b> Introduction to condensed five and six- membered heterocycles
13.5.2021	Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisherindolesynthesis,Skraup synthesis and Bischler-Napieralski synthesis
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Test
20.5.2021	Mechanism of electrophilic substitution reactions of Indole, quinoline and isoquinoline

21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	<b>Organosulphur Compounds</b> Nomenclature, structural features, Methods of formation and chemical reactions of thiols.
27.5.2021	Structural features, Methods of formation and chemical reactions of thioethers, sulphonic acids, sulphonamides and sulphaguanidine.
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Synthetic detergents, alkyl and aryl sulphonates and assignment
03.6.2021	<b>Organic Synthesis via Enolates</b> Acidity of alpha-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>

7.6.2021	
8.6..2021	
9.6.2021	Synthesis of ethyl acetoacetate: the Claisen condensation.
10.6.2021	Keto-enol tautomerism of ethyl acetoacetate.
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Test
17.6.2021	<b>Synthetic Polymers:</b> Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins, urea formaldehyde resins
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>

28.6.2021	
29.6.2021	
30.6.2021	Epoxy resins and polyurethanes, Natural and synthetic rubbers Assignment
01.7.2021	<b>Amino Acids , Protiens and Peptides :</b> Synthesis of amio acids and its properties, Classification of proteins. Peptide structure determination,
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	End group analysis, selective hydrolysis of peptides. Classical peptide synthesis , Solid Phase synthesis.
8.7..2021	Test
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Revision Class
15.7.2021	Doubt Class of whole syllabus
16.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Anita**  
**Class and Section: B.Sc ( Non Med) 6<sup>th</sup>Semester, Section-A**  
**Subject: Organic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	INTRODUCTION
13.4.2021	<b>Heterocyclic Compounds-I</b> Introduction: Molecular orbital picture
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Aromatic characteristics of pyrrole, furan, thiophene and pyridine.
20.4.2021	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine
27.4.2021	Comparison of basicity of piperidine and pyrrole and assignment
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>

03.5.2021	<b>Heterocyclic Compounds-II</b> Introduction to condensed five and six- membered heterocycles
04.5.2021	Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisherindolesynthesis,Skraup synthesis and Bischler-Napieralski synthesis
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Test
11.5.2021	Mechanism of electrophilic substitution reactions of Indole,quinoline and isoquinoline
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	<b>Organosulphur Compounds</b> Nomenclature, structural features, Methods of formation and chemical reactions of thiols.
18.5.2021	Structural features, Methods of formation and chemical reactions of thioethers, sulphonic acids, sulphonamides and sulphaguanidine.
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Synthetic detergents, alkyl and aryl sulphonates and assignment
25.5.2021	<b>Organic Synthesis via Enolates</b> Acidity of alpha-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Synthesis of ethyl acetoacetate: the Claisen condensation.
01.6.2021	Keto-enol tautomerism of ethyl acetoacetate.
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	Test
8.6.2021	<b>Synthetic Polymers:</b> Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>

14.6..2021	Condensation or step growth polymerization.Polyesters polyamides, phenol formaldehyde resins, urea formaldehyde resins
15.6.2021	Epoxy resins and polyurethanes, Natural and synthetic rubbers.
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	ASSIGNMENT
22..6.2021	<b>Amino Acids, Peptides&amp; Proteins:</b> Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Preparation of alpha -amino acids.Structure and nomenclature of peptides and proteins
29.6.2021	Classification of proteins. Peptide structure determination
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	End group analysis, selective hydrolysis of peptides. Classical peptide synthesis
6.7..2021	TEST
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision of whole syllabus
13.7.2021	Doubt Class of whole syllabus
14.7..2021	
15.7.2021	
16.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Chetna**  
**Class and Section: B.Sc. (Medical) 4th Semester, Section-A**  
**Subject: Physical Chemistry (CH-403)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Electrochemistry-III : Introduction, electrolytic and galvanic cells, reversible and irreversible cells
17.4.2021	Conventional representation of electrochemical cells , EMF of cell and its measurement, Weston standard cell
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Activity and activity coefficient, calculation of thermodynamic quantities of cell reaction
24.4.2021	Types of reversible electrodes - metal-metal Ion gas electrode , metal-insoluble salt anion and redox electrodes
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Electrode reactions , Nernst equations , derivation of cell EMF and single electrode potential
01.5.2021	Standard hydrogen electrode ,reference electrode, standard electrode potential

02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Sign conventions, electrochemical series and its applications
08.5.2021	Assignment
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Test
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	Electrochemistry-IV : concentration cells with and without transference
22.5.2021	Liquid junction potential
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Application of EMF measurement, i.e, valency of ions, solubility product activity coefficient
29.5.2021	Potentiometric titration ( acid ,base and redox ) , determination of pH using hydrogen electrode
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	Quinhydrone electrode and glass electrode by potentiometric methods
5.6.2021	Assignment
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	Thermodynamics-III: second law of thermodynamics, need for the law ,different statements of the law
12.6.2021	Carnot cycle and its efficiency carnot theorem
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	

18.6.2021	Thermodynamics scale of temperature concept of entropy entropy as a state function
19.6.2021	Entropy as a function of vnt entropy as a function of p and t entropy change in physical change
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Entropy as a criteria of spontaneity and equilibrium, entropy change in ideal gases and mixing of gases
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Test
03.7.2021	Third law of thermodynamics notes heat theorem
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Statement of concept of residual entropy evaluation of absolute entropy from heat capacity data Gifts and helmholtz functions as thermodynamics quantities
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	NGS criteria for thermodynamics equilibrium and spontaneity their advantage over and entropy change
17.7.2021	Variation of g and a with p v and t
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Chetna**  
**Class and Section: B.Sc. (Medical) 4th Semester, Section-B**  
**Subject: Physical Chemistry(CH-403)**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Electrochemistry-III : Introduction, electrolytic and galvanic cells, reversible and irreversible cells
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Conventional representation of electrochemical cells , EMF of cell and its measurement, Weston standard cell
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Activity and activity coefficient, calculation of thermodynamic quantities of cell reaction
29.4.2021	Types of reversible electrodes - metal-metal Ion gas electrode , metal-insoluble salt anion and redox electrodes
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	

04.5.2021	
05.5.2021	Electrode reactions , Nernst equations , derivation of cell EMF and single electrode potential
06.5.2021	Standard hydrogen electrode ,reference electrode, standard electrode potential
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Sign conventions, electrochemical series and its applications
13.5.2021	Assignment
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Test
20.5.2021	Electrochemistry-IV : concentration cells with and without transference
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Liquid junction potential
27.5.2021	Application of EMF measurement, i.e, valency of ions, solubility product activity coefficient
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Potentiometric titration ( acid ,base and redox ) , determination of pH using hydrogen electrode
03.6.2021	Quinhydrone electrode and glass electrode by potentiometric methods
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Carnot's cycle and its efficiency Carnot's theorem
17.6.2021	Thermodynamics scale of temperature, concept of entropy, entropy as a state function
18.6.2021	
19.6.2021	

20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Thermodynamics-III: second law of thermodynamics, need for the law ,different statements of the law
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Entropy as a function of V and T, entropy as a function of P and T, entropy change in physical change
01.7.2021	Entropy as a criteria of spontaneity and equilibrium, entropy change in ideal gases and mixing of gases
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Third law of thermodynamics , Nernst heat theorem
8.7..2021	Statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Gibbs and helmholtz functions as thermodynamics quantities, Criteria for thermodynamics equilibrium and spontaneity, their advantage and entropy change
15.7.2021	Variation of G and A with P, V and T
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Revision
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Chetna**  
**Class and Section: B.Sc. (Medical) 6th Semester, Section-A**  
**Subject: Physical Chemistry (CH-603 )**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Electronic spectrum: Introduction, concept of potential energy curves for bonding and antibonding molecular orbitals, Qualitative description of selection rules and Franck-Condon principle
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Qualitative description of sigma and pi and n molecular orbital, their energy level and respective transitions
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Photochemistry: interaction of radiation with matter , difference between thermal and photochemical processes
29.4.2021	Laws of photochemistry: Grotthus-Draperlaw , Stark Einstein law
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	

05.5.2021	Jablonski diagram, qualitative description of fluorescence and phosphorescence and non-radiative processes
06.5.2021	Quantum yield, photosensitized reactions , energy transfer processes
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Test
13.5.2021	Ideal and non ideal solutions, methods of expressing concentrations of solutions , activity and activity coefficient
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Dilute solutions, colligative properties, Raoult's law , relative lowering of vapour pressure
20.5.2021	Molecular weight determination, Osmosis law of osmotic pressure and its measurement
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Determination of molecular weight from osmotic pressure
27.5.2021	Elevation of boiling point and depression of freezing point
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Thermodynamics derivation of relation between molecular weight and elevation in boiling point and depression in freezing point
03.6.2021	Experimental methods for determining various colligative properties
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Abnormal molar mass, degree of dissociation and association of solutes
10.6.2021	Assignment
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Phase equilibrium: Introduction, statement and meaning of terms- phase, component and degree of freedom
17.6.2021	Thermodynamics derivation of Gibbs phase rule
18.6.2021	
19.6.2021	

20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Phase equilibria of one component system- water system
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Sulphur system
01.7.2021	Phase equilibria of two component systems solid liquid equilibrium
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Simple eutectic example - Pb-Ag system and desilverisation of lead
8.7..2021	Revision
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Revision
15.7.2021	Revision
16.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Chetna****Class and Section: B.Sc. Biotech. 2nd Semester****Subject: (BT-205) Physical Chemistry****Mode of Teaching: Online & Offline****Lectures Per Week: 2****Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	Kinetics - I : Rate of reaction, rate equation, factors influencing the rate of a reaction- concentration, temperature, pressure, solvent, light ,catalyst
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	Order of a reaction, integrated rate expression for zero order , first order and second order reaction
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	Integrated rate expression for third order reaction, half life period of a reaction
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	Methods of determination of order of reaction
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	Test
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	Kinetics -II : effect of temperature on the rate of reaction- Arrhenius equation
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	Theories of reaction rate- simple collision theory for unimolecular and bimolecular collision
05.5.2021	
06.5.2021	

07.5.2021	
08.5.2021	Transition state theory of bimolecular reactions
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	Assignment
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Electrochemistry-I: electrolytic conduction, factors affecting electrolytic conduction , specific conductance, molar conductance, equivalent conductance
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	Relation among them, their variation with concentration, Arrhenius theory of ionization, Ostwald's dilution law
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	Debye-Huckel Onsager's equation for strong electrolytes
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	Transport number , Hittorf's method
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	Moving boundary method
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	Assignment
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	Kohlrausch's law, calculation of molar ionic conductance
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	Effect of viscosity temperature and pressure on molar ionic conductance
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	Application of Kohlrausch's law in calculation of conductance of weak electrolytes at infinite dilution
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	Applications of conductivity measurements : determination of degree of dissociation
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	Determination of Ka of acids
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	Determination of solubility product of sparingly soluble salts

23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	Conductometric titrations
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	Definition of pH and pKa
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	Buffer solution, buffer action , Henderson-Hazel equation
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	Buffer mechanism of buffer action
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	Assignment
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	Test
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	Revision
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	Revision
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6.2021	Revision
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Mandeep Kaur**

**Class and Section: B. Sc (Non-Med) 4<sup>th</sup> Semester, Section - B**

**Subject: Organic Chemistry**

**Mode of Teaching: Online**

**Lectures Per Week: 02**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	IR spectroscopy: Introduction
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Hooke's Law, Selection rules
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Intensity and position of IR bands, fingerprint region
29.4.2021	Characteristic absorptions of various functional groups
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Interpretation of IR spectra and its Applications
06.5.2021	Test of IR spectroscopy
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	

11.5.2021	
12.5.2021	Amines: Introduction, nomenclature and separation of amines
13.5.2021	Preparation of alkyl and aryl amines
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Chemical Reactions of Amines
20.5.2021	Gabriel phthalimide reaction, Hofmann Bromamide reaction
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Basicity of Amines and their separation
27.5.2021	Electrophilic aromatic substitution reactions in amines
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Doubt class of Unit-I and Unit-II
03.6.2021	Test of Amines
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Diazonium salts: Structure, Preparation and Physical properties
10.6.2021	Chemical properties of diazonium salts, Coupling Reactions
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Nitro Compounds: Nomenclature, Preparation, Physical properties
17.6.2021	Nitro compounds: Chemical Reactions
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Doubt class
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	

30.6.2021	Test of Diazonium salts
01.7.2021	Introduction to Aldehydes and Ketones
02.7.2021	Formation of Aldehydes and Ketones
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Chemical reactivity of Aldehydes and Ketones
8.7.2021	Aldol, Claisen and Benzoin condensation
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Perkin and Wittig reaction
15.7.2021	Mannich and Knoevenagel Reaction, Oxidation and Reduction Reactions
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Test
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Mandeep Kaur****Class and Section: B.Sc (Med) 2<sup>nd</sup> Semester, Section - A****Subject: Inorganic Chemistry****Mode of Teaching: Online****Lectures Per Week: 02****Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Hydrogen bonding - Definition and types
17.4.2021	Effects of hydrogen bonding and applications
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Various types of Vander Waal's forces
24.4.2021	Metallic bond - Introduction and band theory
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Semiconductors
01.5.2021	Test
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	S block elements - properties, diagonal relationship
08.5.2021	S block elements - salient features of hydrides, complexation and solvation tendency
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	

12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Chemical properties of noble gases
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	Chemistry of Xenon compounds
22.5.2021	Structure and bonding of fluorides of Xenon
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Structure and bonding of oxides and oxyfluorides of Xenon
29.5.2021	Characteristics of 13 group elements, Diborane and its properties and structure
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	13 group elements - borazine and its chemical properties,
5.6.2021	Trihalides of Boron and other important compounds of Boron family
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6.2021	
9.6.2021	
10.6.2021	
11.6.2021	Test
12.6.2021	Characteristics of group 14 elements, study of their hydrides, oxides, halides
13.6.2021	<b>SUNDAY</b>
14.6.2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Carbides, fluorocarbons
19.6.2021	Silicates, silicones - preparation and uses
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Characteristics of group 15 elements, study of their hydrides, oxides, oxoacids
26.6.2021	Oxides of Nitrogen and Phosphorus
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	

01.7.2021	
02.7.2021	Oxoacids of Nitrogen and Phosphorus, Allotropes of Phosphorus
03.7.2021	Characteristics of group 16 elements, study of their compounds
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7.2021	
7.7.2021	
8.7.2021	
9.7.2021	Oxides of sulphur ; Hydrogen peroxide
10.7.2021	General characteristics of group 17 elements, basic properties of halogens
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	
15.7.2021	
16.7.2021	Interhalogen compounds, interhalogen ions and polyhalides
17.7.2021	Hydro acids of halogens, Oxoacids of chlorine
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	Revision And Doubts
24.7.2021	Test
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Mandeep Kaur**  
**Class and Section: B.Sc (Med) 2<sup>nd</sup> Semester, Section - B**  
**Subject: Inorganic Chemistry ( CH-201)**  
**Mode of Teaching: Online**  
**Lectures Per Week: 02**  
**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Hydrogen bonding - Definition and types
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Effects of hydrogen bonding and applications
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Various types of Vander Waal's forces
29.4.2021	Metallic bond - Introduction and band theory
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Semiconductors
06.5.2021	Test
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	S block elements - properties, diagonal relationship

13.5.2021	S block elements - salient features of hydrides, complexation and solvation tendency
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Chemical properties of noble gases
20.5.2021	Chemistry of Xenon compounds
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Structure and bonding of fluorides of Xenon
27.5.2021	Structure and bonding of oxides and oxyfluorides of Xenon
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Characteristics of 13 group elements, Diborane and its properties and structure
03.6.2021	13 group elements - borazine and its chemical properties,
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	
8.6.2021	
9.6.2021	Trihalides of Boron and other important compounds of Boron family
10.6.2021	Test
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	
15.6.2021	
16.6.2021	Characteristics of group 14 elements, study of their hydrides, oxides, halides
17.6.2021	Carbides, fluorocarbons
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Silicates, silicones - preparation and uses
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Characteristics of group 15 elements, study of their hydrides, oxides, oxoacids
01.7.2021	Oxides of Nitrogen and Phosphorus

02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7.2021	
7.7.2021	Oxoacids of Nitrogen and Phosphorus, Allotropes of Phosphorus
8.7.2021	Characteristics of group 16 elements, study of their compounds
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	Oxides of sulphur ; Hydrogen peroxide
15.7.2021	General characteristics of group 17 elements, basic properties of halogens
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Interhalogen compounds, interhalogen ions and polyhalides
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	Hydro acids of halogens, Oxoacids of chlorine

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**Name of the Assistant/Associate Professor: Ms. Mandeep Kaur**

**Class and Section: B.Sc (Med) 4<sup>th</sup> Semester, Section - A**

**Subject: Inorganic Chemistry ( CH-401)**

**Mode of Teaching: Online**

**Lectures Per Week: 02**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Lanthanides: Electronic Structure, Oxidation States
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Lanthanides: Ionic Radii, Lanthanide Contraction
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Lanthanides: Complex Formation, Occurrence and Isolation
29.4.2021	Lanthanides: Compounds of Lanthanides
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Revision And Doubts
06.5.2021	Test
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Actinides: Introduction, General Features Of Actinides
13.5.2021	Actinides: Chemistry Of Actinides

14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Actinides: Chemistry of Separation of Neptunium, Plutonium and Americium From Uranium
20.5.2021	Actinides: Comparison of Properties of Lanthanides and Actinides With Transition Metals
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Revision and Doubts
27.5.2021	Test
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Chemistry of Analysis of Various Acidic Radicals
03.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Chemistry of Analysis of Various Acidic Radicals
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Identification of Acid Radicals in Typical Combinations
10.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Interference of Acid Radicals Including Their Removal in the Analysis of Basic Radicals
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Test
17.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	

26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
01.7.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Theory of Precipitation, Co-Precipitation
8.7..2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Post-Precipitation, Purification of Precipitates
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	Revision And Doubts
15.7.2021	Test
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Doubts
23.7.2021	
24.7.2021	

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Name of the Assistant/Associate Professor: Ms. Mandeep Kaur

Class and Section: B.Sc(Med) 4<sup>th</sup>Semester, Section - B

Subject: Inorganic Chemistry(CH-401)

Mode of Teaching: Online

Lectures Per Week: 02

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	Lanthanides: Electronic Structure, Oxidation States
13.4.2021	Lanthanides: Ionic Radii, Lanthanide Contraction
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Lanthanides: Complex Formation, Occurrence and Isolation
20.4.2021	Lanthanides: Compounds of Lanthanides
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Revision And Doubts
27.4.2021	Test
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Actinides: Introduction, General Features Of Actinides
04.5.2021	Actinides: Chemistry Of Actinides
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Actinides: Chemistry of Separation of Neptunium, Plutonium and Americium From Uranium
11.5.2021	Actinides: Comparison of Properties of Lanthanides and Actinides With Transition Metals
12.5.2021	
13.5.2021	

14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Revision and Doubts
18.5.2021	Test
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Chemistry of Analysis of Various Acidic Radicals
25.5.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Chemistry of Analysis of Various Acidic Radicals
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Identification of Acid Radicals in Typical Combinations
01.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-I: Interference of Acid Radicals Including Their Removal in the Analysis of Basic Radicals
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Revision And Doubts
8.6..2021	Test
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
15.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
22..6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Analysis of Various Groups of Basic Radicals
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	

26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Theory of Precipitation, Co-Precipitation
29.6.2021	Theory of Qualitative and Quantitative Inorganic Analysis-II: Post-Precipitation, Purification of Precipitates
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision And Doubts of Lanthanides
6.7..2021	Test
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision And Doubts of Actinides
13.7.2021	Test
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Doubts
20.7.2021	Doubts
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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Name of the Assistant/Associate Professor: Ms. Komal Chauhan

Class and Section: B.Sc.(Non-Med) 6<sup>th</sup> Semester, Section -A

Subject: Nuclear Physics ( PHY 602 )

Mode of Teaching: Online &Offline- Online

Lectures Per Week: 3

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction of Nuclear structure & Properties of Nuclei
16.4.2021	Rutherford's alpha particle scattering experiment
17.4.2021	Derivation of determination of size of Nucleus
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Theory of Composition of Nucleus
23.4.2021	Theory of Composition of Nucleus
24.4.2021	Theory of Composition of Nucleus
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Assignment
30.4.2021	WEBINAR
01.5.2021	Proton-Electron Hypothesis
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Proton-Neutron Hypothesis
07.5.2021	Properties of Nucleus
08.5.2021	Properties of Nucleus
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Properties of Nucleus
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Class test
16.5.2021	<b>SUNDAY</b>
17.5.2021	

18.5.2021	
19.5.2021	
20.5.2021	Mass Defect & Binding energy & Derivation of Binding energy
21.5.2021	Nuclear & Binding energy
22.5.2021	Nuclear Stability
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Bainbridge Mass Spectrograph
28.5.2021	Bainbridge & Jordan Double Focusing Mass Spectrograph
29.5.2021	X-Ray spectra, origin of X-ray spectrum
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Characteristics of X-ray spectrum
4.6.2021	Nuclear charge & its determination by Mosley's Law
5.6.2021	assignment G.M Counter , Semiconductor detector
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Nuclear Reactions ,types and Conservation laws
11.6.2021	Interaction of Heavy charged particles(Alpha particles ) with matter
12.6.2021	Alpha Disintegration and its theory, range and straggling of alpha particles
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Energetics of alpha decay , Geiger –Nuttal Law
18.6.2021	Interaction of Heavy charged particles(Beta particles ) with matter
19.6.2021	Beta ray spectrum, Pauli Neutrino hypothesis
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Types of Beta decay, Energetics of Beta decay
26.6 2021	Energy loss of beta particles in matter by Ionization
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Interaction of gamma radiations with matter
02.7.2021	Electron positron annihilation, absorption of Gamma- rays
03.7.2021	Nuclear fission ,Nuclear chain reaction,Nuclear fusion and fission
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	

7.7.2021	
8.7..2021	Particle Accelerators& types of particle Accelerators
9.7.2021	Tendem Accelerator , linear accelerator
10.7.2021	Cyclotron and betatron
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Gas filled detectors , ionization chamber
16.7.2021	Proportional Counter, , scintillation counter



**Name of the Assistant/Associate Professor: Ms. Komal Chauhan**

**Class and Section: B.Sc.(Non-Med) 6<sup>th</sup> Semester, Section -B**

**Subject: Nuclear Physics**

**Mode of Teaching: Online &Offline- Online**

**Lectures Per Week: 3**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction of Nuclear structure
13.4.2021	Nuclear structure & Properties of Nuclei
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Rutherford's alpha particle scattering experiment
20.4.2021	Derivation of determination of size of Nucleus
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Theory of Composition of Nucleus
27.4.2021	Theory of Composition of Nucleus
28.4.2021	Proton-Electron Hypothesis
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Proton-Neutron Hypothesis
04.5.2021	Properties of Nucleus
05.5.2021	Properties of Nucleus
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Mass Defect & Binding energy ,Derivation of Binding energy
11.5.2021	Nuclear & Binding energy
12.5.2021	Nuclear Stability
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Bainbridge Mass Spectrograph
18.5.2021	Bainbridge & Jordan Double Focusing Mass Spectrograph

19.5.2021	X-Ray spectra, origin of X-ray spectrum
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Characteristics of X-ray spectrum
25.5.2021	Nuclear charge & its determination by Mosley's Law
26.5.2021	Class test
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Interaction of Heavy charged particles(Alpha particles ) with matter
01.6.2021	Alpha Disintegration and its theory, range and straggling of alpha particles
02.6.2021	Energetics of alpha decay , Geiger –Nuttal Law
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Interaction of Heavy charged particles(Beta particles ) with matter
8.6..2021	Beta ray spectrum, Pauli Neutrino hypothesis
9.6.2021	Types of Beta decay, Energetics of Beta decay
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Energy loss of beta particles in matter by Ionization
15.6.2021	Interaction of gamma radiations with matter
16.6.2021	Electron positron annihilation, absorption of Gamma- rays
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Class test
22..6.2021	Particle Accelerators& types of particle Accelerators
23.6.2021	Tendem Accelerator , linear accelerator
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Cyclotron and betatron
29.6.2021	Gas filled detectors , ionization chamber
30.6.2021	Proportional Counter, , scintillation counter
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	G.M Counter , Semiconductor detector
6.7..2021	Nuclear Reactions & its types , Conservation laws

7.7.2021	Energetics of Nuclear Reactions
8.7.2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Nuclear fission ,Nuclear chain reaction
13.7.2021	Nuclear Reactor and Nuclear fusion
14.7.2021	Nuclear fusion
15.7.2021	
16.7.2021	



**Name of the Assistant/Associate Professor: Ms. Komal Chauhan**

**Class and Section: B.Sc. ( Non-Med) -4<sup>th</sup> Semester, Section-B**

**Subject: Optics**

**Mode of Teaching: Online**

**Lectures Per Week: 03**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction about syllabus
16.4.2021	Interference by division of amplitude
17.4.2021	Colour of thin films
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Colour of thin films
23.4.2021	Colour of thin films
24.4.2021	Test
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Michelson's interferometer
30.4.2021	<b>Application of interferometers</b>
01.5.2021	Test
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Fresnel's diffraction
07.5.2021	Fresnel's half period zones
08.5.2021	Zone plate
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Diffraction at straight edge
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Rectangular slit
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	

20.5.2021	Circular aperture
21.5.2021	Fraunhoffer diffraction
22.5.2021	One slit diffraction
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Two slit diffraction
28.5.2021	N slit diffraction
29.5.2021	Plane transmission grating spectrum
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Dispersive power of grating
4.6.2021	Limit of resolution
5.6.2021	Rayleigh's criterion
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Resolving power of telescope
11.6.2021	Revision
12.6.2021	Numerical practice
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Test
18.6.2021	Resolving power of grating
19.6.2021	Polarization
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Double refraction
26.6.2021	Polarization by reflection
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Polarization by scattering
02.7.2021	Malus law
03.7.2021	Phenomenon of double refraction
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	

8.7..2021	Huygen's wave theory of double refraction(normal and oblique incidence)
9.7.2021	Analysis of polarization of light,Opticalactivity,fresnel's theory of rotation
10.7.2021	Nicol prism, quarter wave plate and half wave plate
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Production polarised and detection of plane light,Optical Activity
16.7.2021	Circularly, Elliptical polarized light,Polarimeter



**Name of the Assistant/Associate Professor: Ms. Komal Chauhan**

**Class and Section: B.Sc. ( Non-Med) 4<sup>th</sup> Semester, Section-B**

**Subject: Statistical Physics**

**Mode of Teaching: Online**

**Lectures Per Week: 03**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Probability & its types
13.4.2021	Probability theorems
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Tossing of coins for distinguishable & non-distinguishable
20.4.2021	Distribution of N particles in boxes for distinguishable & non-distinguishable
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Macrostates & Microstates of system of particles
27.4.2021	Thermodynamical Probability, Constraints , Accessible states
28.4.2021	Permutations , combinations, binomial theorem of probability
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Most probable distributions & statistical fluctuations
04.5.2021	<b>Phase space , static &amp; dynamic system</b>
05.5.2021	Numerical practice
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Test
11.5.2021	Size of phase space cell , Number of phase space cell in given momentum interval
12.5.2021	Derivation of probability
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Condition of equilibrium between two systems in thermal contact-Beta parameter
18.5.2021	Boltzmann Entropy Relation
19.5.2021	Types of statistics and conditions of statistics
20.5.2021	

21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Boltzmann distribution Law
25.5.2021	Numerical practice
26.5.2021	Assignment
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Bose- Einstein Statistics
01.6.2021	Black body radiations
02.6.2021	Planck's Radiation Law
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Bose- Einstein Gas
8.6..2021	Bose- Einstein Gas
9.6.2021	Revision and numerical practice
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Degeneracy & Bose –Einstein Condensation
15.6.2021	Derivation of Fermi Dirac Statistics
16.6.2021	Fermi Dirac Gas & Fermi Energy
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Test
22..6.2021	Electron Gas in Metals
23.6.2021	Zero point energy & average speed of electron gas
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Specific heat of metals
29.6.2021	Difference between M.B , B.E, F.D statistics
30.6.2021	Revision of conceptual questions
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Test
6.7..2021	Revision of Boltzmann distribution Law
7.7.2021	Revision of Bose –Einstein Statistics
8.7..2021	
9.7.2021	

10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision of Fermi -Dirac Statistics
13.7.2021	Revision of black body radiation law
14.7..2021	Revision of Electron Gas in Metals
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	<b>Revision of Phase space , static &amp; dynamic system</b>
20.7.2021	<b>Revision of</b> Number of phase space cell in given momentum interval
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	

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Name of the Assistant/Associate Professor: Ms. Komal Chauhan

Class and Section: B.Sc. ( Non-Med) 4<sup>th</sup> Semester ,Section-A

Subject: Statistical physics ( PHY 401 )

Mode of Teaching: Online

Lectures Per Week: 03

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Probability & its types
16.4.2021	Probability theorems
17.4.2021	Tossing of coins for distinguishable & non-distinguishable
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Distribution of N particles in boxes for distinguishable & non-distinguishable
23.4.2021	Macrostates & Microstates of system of particles
24.4.2021	Thermodynamical Probability, Constraints , Accessible states
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	Permutations , combinations, binomial theorem of probability
30.4.2021	Most probable distributions & statistical fluctuations
01.5.2021	<b>Phase space , static &amp; dynamic system</b>
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	Numerical practice
07.5.2021	Test
08.5.2021	Size of phase space cell , Number of phase space cell in given momentum interval
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Derivation of probability
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Condition of equilibrium between two systems in thermal contact-Beta parameter
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Boltzmann Entropy Relation
21.5.2021	Types of statistics and conditions of statistics
22.5.2021	Boltzmann distribution Law

23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	Numerical practice
28.5.2021	Assignment
29.5.2021	Bose- Einstein Statistics
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Black body radiations
4.6.2021	Planck's Radiation Law
5.6.2021	Bose- Einstein Gas
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Revision and numerical practice
11.6.2021	Degeneracy & Bose –Einstein Condensation
12.6.2021	Derivation of Fermi Dirac Statistics
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Fermi Dirac Gas & Fermi Energy
18.6.2021	Test
19.6.2021	Electron Gas in Metals
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Zero point energy & average speed of electron gas
26.6 2021	Specific heat of metals
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Difference between M.B , B.E, F.D statistics
02.7.2021	Revision of conceptual questions
03.7.2021	Test
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Revision of Boltzmann distribution Law
9.7.2021	Revision of Bose –Einstein Statistics
10.7.2021	Revision of Fermi -Dirac Statistics
11.7.2021	<b>SUNDAY</b>

12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Revision of black body radiation law
16.7.2021	Revision of Electron Gas in Metals
17.7.2021	<b>Revision of Phase space , static &amp; dynamic system</b>
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	<b>Revision of</b> Number of phase space cell in given momentum interval

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**Name of the Assistant/Associate Professor: Ms. Jasvinder Kaur**  
**Class and Section: B.SC(Non-Med) -2<sup>ND</sup> Semester , Section -A**  
**Subject: Properties of Matter, Kinetic Theory and Relativity, PHY- 201**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 3**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	Introduction to syllabus
13.4.2021	Elasticity, Hooke's law
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Elastic constants and their relations
20.4.2021	Poisson's ratio
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Torsion of cylinder and twisting couple
27.4.2021	Bending of beam (bending moment and its magnitude) cantilevers
28.4.2021	Bending of beam (bending moment and its magnitude) cantilevers
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Centrally loaded beam.
04.5.2021	Centrally loaded beam at different Points
05.5.2021	Questions for Revision , Doubts
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Assignment
11.5.2021	Test
12.5.2021	Assumptions of Kinetic Theory of gases
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Law of equipartition of energy
18.5.2021	Law of equipartition of energy and its applications for specific heats of gases
19.5.2021	Maxwell distribution of speeds
20.5.2021	
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Maxwell distribution of velocities

25.5.2021	Experimental verification of Maxwell's Law of speed distribution
26.5.2021	Most probable speed
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Average speed
01.6.2021	R.m.s. speed
02.6.2021	Mean free path
03.6.2021	
4.6.2021	
5.6.2021	
6.6.2021	<b>SUNDAY</b>
7.6.2021	Transport of energy
8.6.2021	Transport of momentum
9.6.2021	Diffusion of gases
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6.2021	Brownian motion
15.6.2021	Real gases
16.6.2021	Van der Waal's equation
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Doubts
22.6.2021	Assignment
23.6.2021	Introduction to Theory of Relativity
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Reference systems
29.6.2021	Inertial frames
30.6.2021	Test
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Galilean invariance and Conservation laws
6.7.2021	Newtonian relativity principle
7.7.2021	Michelson - Morley experiment
8.7.2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Lorentz transformations length contraction
13.7.2021	Time dilation

14.7..2021	Velocity addition theorem
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Variation of mass with velocity
20.7.2021	Variation of mass with mass energy equivalence
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Assignment ,Revision
27.6 2021	Test
28.7.2021	Revision

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Name of the Assistant/Associate Professor: Ms. Jasvinder Kaur

**Class and Section: B.Sc(Non-Med) -2<sup>ND</sup> Semester , Section-A**

**Subject: Electromagnetic Induction and Electronic Devices**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 3**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction to the syllabus
16.4.2021	Growth and decay of current in a circuit with (a) Capacitance and resistance
17.4.2021	Growth and decay of current in a circuit with (b) resistance and inductance
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Growth and decay of current in a circuit with (c) Capacitance and inductance
23.4.2021	Growth and decay of current in a circuit with (d) Capacitance resistance and inductance.
24.4.2021	Growth and decay of current in a circuit with (d) Capacitance resistance and inductance.
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	AC circuit analysis using complex variables with (a) capacitance and resistance
30.4.2021	AC circuit analysis using complex variables with (b) resistance and inductance
01.5.2021	AC circuit analysis using complex variables with (c) capacitance and inductance
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	AC circuit analysis using complex variables with (d) capacitance, inductance and resistance
07.5.2021	Series and parallel resonant circuit
08.5.2021	Quality factor (Sharpness of resonance), Assignment
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Energy bands in solids
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Intrinsic and extrinsic semiconductor
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Hall effect , P-N junction diode and their V-I characteristics.
21.5.2021	Zener and avalanche breakdown
22.5.2021	Resistance of a diode , Test
23.5.2021	<b>SUNDAY</b>
24.5.2021	

25.5.2021	
26.5.2021	
27.5.2021	Light Emitting diodes (LED)
28.5.2021	Photo conduction in semiconductors
29.5.2021	Photodiode , Solar Cell.
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	Diode Rectifiers : P-N junction half wave and full wave rectifier
4.6.2021	Types of filter circuits (L and R with theory)
5.6.2021	Zener diode as voltage regulator
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Simple regulated power supply
11.6.2021	Transistors : Junction Transistors, Bipolar transistors
12.6.2021	Working of NPN and PNP transistors
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Transistor connections (C-B, C-E, C-C mode), constants of transistor
18.6.2021	Transistor connections (C-B, C-E, C-C mode), constants of transistor
19.6.2021	Transistor characteristic curves
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Advantage of C-B configuration , Test
26.6 2021	C.R. O. (Principle, construction and working )
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Assignment
02.7.2021	Transistor Amplifiers : Transistor biasing, methods of Transistor biasing and stabilization
03.7.2021	D.C. load line. Common-base and common-emitter transistor biasing
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	Common-base, common - emitter amplifiers , Test
9.7.2021	Classification of amplifiers
10.7.2021	Resistance-capacitance (R-C) coupled amplifier (two stage; concept of band width, no derivation)
11.7.2021	<b>SUNDAY</b>

12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	Feed-back in amplifiers, advantage of negative feedback Emitter follower
16.7.2021	Oscillators : Oscillators, Principle of Oscillation, Classification of Oscillator
17.7.2021	Condition for self sustained oscillation : Barkhausen Criterion for oscillations
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	Tuned collector common emitter oscillator , Hartley oscillator. Colpitt's oscillator
23.7.2021	Assignment, Revision
24.7.2021	Test
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6 2021	
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Jasvinder Kaur**  
**Class and Section: B.Sc(Home Science) -2<sup>nd</sup> Semester**

**Subject: Applied Physics**

**Mode of Teaching: Online &Offline**

**Lectures Per Week: 3**

**Note:-Teachers don't have their respective classes on the vacant days.**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	introduction to the syllabus
20.4.2021	properties of solid, liquid and gases
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	hooks' law
25.4.2021	<b>SUNDAY</b>
26.4.2021	elastic constants
27.4.2021	archimedes' principle, viscosity
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	assignment
02.5.2021	<b>SUNDAY</b>
03.5.2021	postulates of kinetic theory of gases
04.5.2021	gas equation
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	questions for revision , doubts
09.5.2021	<b>SUNDAY</b>
10.5.2021	assignment
11.5.2021	test
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	introduction to mechanics
16.5.2021	<b>SUNDAY</b>
17.5.2021	newton' law of motion
18.5.2021	equation of motion
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	numericals
23.5.2021	<b>SUNDAY</b>
24.5.2021	assignment
25.5.2021	types of forces
26.5.2021	

27.5.2021	
28.5.2021	
29.5.2021	friction and it's types
30.5.2021	<b>SUNDAY</b>
31.5.2021	numericals
01.6.2021	advantages and disadvantages of friction
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	ball bearings
6.6..2021	<b>SUNDAY</b>
7.6.2021	conservation of charge
8.6..2021	ohm's law, electric potential
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	joule's law of heating
13.6.2021	<b>SUNDAY</b>
14.6..2021	heater, electric iron
15.6.2021	toaster
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	electric power and its units
20.6.2021	<b>SUNDAY</b>
21.6.2021	doubts
22..6.2021	assignment
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6 2021	transformer
27.6.2021	<b>SUNDAY</b>
28.6.2021	electric circuits
29.6.2021	properties of heat
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	test
4.7.2021	<b>SUNDAY</b>
5.7.2021	methods of heat transfer
6.7..2021	refrigerator , pressure cooker
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	vacuum cleaner
11.7.2021	<b>SUNDAY</b>
12.7.2021	light and its phenomenon
13.7.2021	doubts
14.7..2021	
15.7.2021	

16.7.2021	
17.7.2021	revision
18.7.2021	<b>SUNDAY</b>
19.7.2021	assignment
20.7.2021	test
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	revision
25.7.2021	<b>SUNDAY</b>
26.7.2021	assignment , revision
27.6 2021	test
28.7.2021	

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**Name of the Assistant/Associate Professor: Ms. Ranjana**

**Class and Section: B.Sc Biotech -4<sup>th</sup> Semester**

**Subject: Inorganic Chemistry**

**Mode of Teaching: Online**

**Lectures Per Week: 02**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction Chemistry of f – block elements
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Introduction Chemistry of Lanthanides
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Lanthanides Electronic structure & Lanthanides oxidation states and ionic radii
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	lanthanide contraction, complex formation
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	occurrence and isolation, lanthanide compounds.
27.4.2021	
28.4.2021	
29.4.2021	Assignment
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Introduction of Chemistry of Actinides
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	General features and chemistry of actinides.
08.5.2021	
09.5.2021	<b>SUNDAY</b>
10.5.2021	Assignment
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	chemistry of separation of Np , Pu
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	chemistry of separation of and Am from U
22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	Test of the Lanthanides Electronic structure & Lanthanides oxidation states and ionic radii
25.5.2021	
26.5.2021	

27.5.2021	
28.5.2021	Comparison of properties of Lanthanides and Actinides.
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Comparison of properties of Lanthanides and Actinides and with transition elements.
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	Assignment
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Introduction of theory of Qualitative Inorganic Analysis-I
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	Introduction Theory of Quantitative Inorganic Analysis-I
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Chemistry of analysis of various acidic radicals
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Chemistry of identification of acid radicals.
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Test of General features and chemistry of actinides & chemistry of separation of Np , Pu.
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Revision of occurrence and isolation, lanthanide compounds.
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Revision of chemistry of separation of Am from U.
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Assignment
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Chemistry of identification of acid radicals in typical combinations.
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Chemistry of interference of acid radicals including their removal in the analysis of basic radicals
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Chemistry of analysis of various groups of basic radicals.
13.7.2021	

14.7..2021	
15.7.2021	
16.7.2021	Test of the Comparison of properties of Lanthanides and Actinides & Comparison of properties of Lanthanides and Actinides and with transition elements.
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Theory of precipitation
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	co-precipitation, Post- precipitation, purification of precipitates.
24.7.2021	Revision

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Name of the Assistant/Associate Professor: Ms. Ranjana

Class and Section: B.Sc. Biotech, 6<sup>th</sup> Semester

Subject: Inorganic Chemistry (BT-607)

Mode of Teaching: Online

Lectures Per Week: Two

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction of Organometallic Chemistry
16.4.2021	Organometallic Chemistry Definition, nomenclature and classification of organometallic compounds.
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Organometallic Preparation, properties, and bonding of alkyls of Li, Al
23.4.2021	Preparation, properties, and bonding of alkyls Hg, and Sn
24.4.2021	.
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	A brief account of metal-ethylenic complexes,
30.4.2021	A brief account of mononuclear carbonyls and assignment
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	The nature of bonding in metal carbonyls.
07.5.2021	Test of the Organometallic Preparation, properties, and bonding of alkyls of Li, Al
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	Introduction of Acids and Bases Concept
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	Introduction of HSAB Concept
21.5.2021	Arrhenius, Bronsted – Lowry, Concept of Acid , Bases
22.5.2021	

23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	the Lux – Flood, and Lewis concepts of acids & bases,
28.5.2021	Solvent system Lewis concepts of acids & bases
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	relative strength of acids & bases. And assignment
4.6.2021	Concept of Hard and Soft Acids.
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	Test of the brief account of metal-ethylenic complexes
11.6.2021	Concept of Hard and Soft Bases & Symbiosis & electronegativity and hardness and softness
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	Introduction of Bioinorganic Chemistry
18.6.2021	Bioinorganic Chemistry Essential and trace elements in biological processes.
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22.6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	metalloporphyrins with special reference to haemoglobin and myoglobin. And assignment
26.6 2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	Biological role of alkali and alkaline earth metal ions with special reference to Ca <sup>2+</sup> . Nitrogen fixation.
02.7.2021	Test of the Concept of Hard and Soft Bases & Symbiosis & electronegativity and hardness and softness.
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	

7.7.2021	
8.7..2021	Introduction of Silicones and Phosphazenes
9.7.2021	Silicones their preparation, properties,structure and uses
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	phosphazenes, their preparation, properties,structure and uses.
16.7.2021	Revision



**Name of the Assistant/Associate Professor: Ms. Ranjana**

**Class and Section: B.Sc Biotech, 2<sup>nd</sup> Semester**

**Subject: Inorganic Chemistry (BT- 207)**

**Mode of Teaching: Online**

**Lectures Per Week: 02**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	Introduction of Hydrogen Bonding & Vander Waals Forces
13.4.2021	Hydrogen Bonding – Definition, Types, effects of hydrogen bonding
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	-
16.4.2021	-
17.4.2021	-
18.4.2021	<b>SUNDAY</b>
19.4.2021	effects of hydrogen bonding on properties of substances, application
20.4.2021	Brief discussion of Vander Waals Forces
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	-
23.4.2021	-
24.4.2021	-
25.4.2021	<b>SUNDAY</b>
26.4.2021	Brief discussion of various types of Vander Waals Forces
27.4.2021	Assignment
28.4.2021	-
29.4.2021	-
30.4.2021	-
01.5.2021	-
02.5.2021	<b>SUNDAY</b>
03.5.2021	Introduction of Metallic Bond & Semiconductors
04.5.2021	band theory of metallic bond & Semiconductors- types and applications
05.5.2021	-
06.5.2021	-
07.5.2021	-
08.5.2021	-
9.5.2021	<b>SUNDAY</b>
10.5.2021	Introduction of s-Block Elements
11.5.2021	Comparative study of the elements including ; diagonal relationships
12.5.2021	-
13.5.2021	-
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	-
16.5.2021	<b>SUNDAY</b>
17.5.2021	Test of the effects of hydrogen bonding on properties of substances, application.
18.5.2021	solvation and complexation tendencies including their function in biosystems.
19.5.2021	-
20.5.2021	-
21.5.2021	-
22.5.2021	-
23.5.2021	<b>SUNDAY</b>

24.5.2021	ASSIGNMENT
25.5.2021	Introduction of Chemistry of Noble Gases.
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Chemical properties of the noble gases with emphasis on their low chemical reactivity.
01.6.2021	chemistry of xenon, structure and bonding of oxides & oxy fluorides of xenon
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Introduction of p-Block Elements
8.6..2021	Test of the solvation and complexation tendencies including their function in biosystems.
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	ASSIGNMENT
13.6.2021	<b>SUNDAY</b>
14.6..2021	Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding methods of preparation).
15.6.2021	Boron family (13th group):- Diborane – properties and structure
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Borazene – chemical properties and structure Trihalides of Boron – Trends in Lewis acid character structure of aluminium (III) chloride.
22..6.2021	Carbon Family (14th group) Catenation p-orbital hybridization – d-orbital hybridization – bonding (an idea), carbides, fluorocarbons
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Test Of the Borazene – chemical properties and structure Trihalides of Boron – Trends in Lewis acid Strength
29.6.2021	silicates (structural aspects), silicons – general methods of preparations, properties and uses.
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>

5.7.2021	Nitrogen Family (15 <sup>th</sup> group) Oxides – structures of oxides of N,P.
6.7..2021	oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus.
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	Structure of white, yellow and red phosphorus.
13.7.2021	Oxygen Family (16 <sup>th</sup> group) Oxyacids of sulphur – structures
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	acidic strength H <sub>2</sub> O <sub>2</sub> – structure, properties and uses.
20.7.2021	Halogen Family (17 <sup>th</sup> group) B a s i c p r o p e r t i e s o f halogen
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	Intererhalogens types properties , hydro and oxyacids of chlorine – structure and comparison of acid strength
27.6 2021	
28.7.2021	Revision

✓  
Name of the Assistant/Associate Professor: Ms.Pooja Malik

Class and Section: B.Sc. (Non Medical) 2<sup>nd</sup> Semester

Subject: Inorganic Chemistry

Mode of Teaching: Online &Offline

Lectures Per Week: 2

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Hydrogen bonding - Definition and types
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Effects of hydrogen bonding and applications
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Various types of vanderwaal's forces
29.4.2021	Metallic bond - Introduction and band theory
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Semiconductors
06.5.2021	Doubts and Revision of First unit
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	S block elements - properties, diagonal relationship
13.5.2021	s block elements - salient features of hydrides and there complexation and solvation tendency
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Chemical properties of noble gases
20.5.2021	Chemistry of Xenon compounds
21.5.2021	

22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Structure and bonding of fluorides of Xenon
27.5.2021	Structure and bonding of oxides and oxyfluorides of Xenon
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Characteristics of 13 group elements , Diborane and its properties and structure
03.6.2021	13 group elements - borazine and its chemical properties,
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Trihalides of Boron and other important compounds of Boron family
10.6.2021	Test of Unit II - s block elements
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Characteristics of group 14 elements, study of their hydrides, oxides, halides
17.6.2021	Carbides, fluorocarbons
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Silicates, silicones - preparation and uses
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Characteristics of group 15 elements, study of their hydrides, oxides, oxoacids
01.7.2021	Oxides of Nitrogen and Phosphorus
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Oxoacids of Nitrogen and Phosphorus, Allotropes of Phosphorus
8.7..2021	Characteristics of group 16 elements, study of their compounds
9.7.2021	

10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7.2021	Oxides of sulphur ; Hydrogen peroxide
15.7.2021	General characteristics of group 17 elements, basic properties of halogens
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	
20.7.2021	
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Interhalogen compounds, interhalogen ions and polyhalides
23.7.2021	
24.7.2021	
25.7.2021	<b>SUNDAY</b>
26.7.2021	
27.6.2021	
28.7.2021	Hydro acids of halogens, Oxoacids of chlorine

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Name of the Assistant/Associate Professor: Ms. Pooja Malik

Class and Section: B.Sc. (Medical) ,4<sup>th</sup> Semester,Section: A

Subject: Organic Chemistry

Mode of Teaching: Online &Offline

Lectures Per Week: 2

Note:-Teachers don't have their respective classes on the vacant days.

Date	Topic to be Covered
12.4.2021	IR spectroscopy : Introduction
13.4.2021	Hooke's Law, Selection rules
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Intensity and position of IR bands, fingerprint region
20.4.2021	Characteristic absorptions of various functional groups
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	Interpretation of IR spectra and its Applications
27.4.2021	Test of IR spectroscopy
28.4.2021	
29.4.2021	
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	Amines : Introduction, nomenclature and separation of amines
04.5.2021	Preparation of alkyl and aryl amines
05.5.2021	
06.5.2021	
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	Chemical Reactions of Amines
11.5.2021	Gabriel phthalimide reaction, Hofmann Bromamide reaction
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	Basicity of Amines and their separation
18.5.2021	Electrophilic aromatic substitution reactions in amines
19.5.2021	
20.5.2021	
21.5.2021	
22.5.2021	

23.5.2021	<b>SUNDAY</b>
24.5.2021	Doubt class of Unit-I and Unit-II
25.5.2021	Test of Amines
26.5.2021	
27.5.2021	
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	Diazoniumsalts : Structure, Preparation and Physical properties
01.6.2021	Chemical properties of diazonium salts, Coupling Reactions
02.6.2021	
03.6.2021	
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	Nitro Compounds : Nomenclature, Preparation, Physical properties
8.6..2021	Nitro compounds : Chemical Reactions
9.6.2021	
10.6.2021	
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	Doubt class
15.6.2021	Test of Diazonium salts
16.6.2021	
17.6.2021	
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	Introduction to Aldehydes and Ketones
22..6.2021	Formation of Aldehydes and Ketones
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	Chemical reactivity of Aldehydes and Ketones
29.6.2021	Aldol, Claisen and Benzoin condensation
30.6.2021	
01.7.2021	
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	Perkin and wittig reaction
6.7..2021	Mannich and Knoevengel Reaction
7.7.2021	
8.7..2021	
9.7.2021	
10.7.2021	

11.7.2021	<b>SUNDAY</b>
12.7.2021	Oxidation of aldehyde and ketone
13.7.2021	Reduction of aldehyde and ketone
14.7..2021	
15.7.2021	
16.7.2021	
17.7.2021	
18.7.2021	<b>SUNDAY</b>
19.7.2021	Doubt class
20.7.2021	Revision
21.7.2021	<b>ID UL ZUHA</b>
22..7.2021	
23.7.2021	
24.7.2021	

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**Name of the Assistant/Associate Professor: Pooja Malik**  
**Class and Section: B.Sc (Medical), 6<sup>th</sup> Semester, Section: B**  
**Subject: Inorganic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction to Organometallic Compounds and it's Types
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Classification of ligands and Effective atomic number
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Nomenclature of organometallic compounds and their Bonding
29.4.2021	Organolithiumcompounds : Preparation, Reactions and Structure
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Organotin compounds : Preparation, Reactions and Structure
06.5.2021	Organoaluminiumcompounds : Preparation, Reactions and Structure
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Organomercurycompounds : Preparation, Reactions and Structure
13.5.2021	Metal alkene complexes and their Bonding
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Metal carbonyls : Preparation, Reactions, Bonding
20.5.2021	Acids and Bases - Different Concepts
21.5.2021	
22.5.2021	
23.5.2021	<b>SUNDAY</b>

24.5.2021	
25.5.2021	
26.5.2021	Relative Strength of Acids and Bases
27.5.2021	Test of Organometallic Chemistry
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Effect of substituents on acidic/basic strength
03.6.2021	HSAB concept of Acids and Bases
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Effect of Electronegativity and effect of Solvent
10.6.2021	Revision of Acids and Bases unit
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Bioinorganic chemistry - Myoglobin and hemoglobin
17.6.2021	Cooperative effect and Bohr effect
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Sodium-Potassium Pump
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Essential elements and Nitrogen Fixation
01.7.2021	Test of Hemoglobin and Myoglobin
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	Preparation and structure of Silicones
8.7..2021	Silicone properties, silicone fluids, silicone elastomers
9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>

12.7.2021	
13.7.2021	
14.7..2021	Phosphazenes - Preparation and properties
15.7.2021	Revision
16.7.2021	

✓  
**Name of the Assistant/Associate Professor: Pooja Malik**  
**Class and Section: B.Sc (Medical), 6<sup>th</sup> Semester, Section: A**  
**Subject: Inorganic chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	Introduction to Organometallic Compounds and it's Types
17.4.2021	Classification of ligands and Effective atomic number
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	
23.4.2021	Nomenclature of organometallic compounds and their Bonding
24.4.2021	Organolithiumcompounds : Preparation, Reactions and Structure
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	
29.4.2021	
30.4.2021	Organotin compounds : Preparation, Reactions and Structure
01.5.2021	Organoaluminiumcompounds : Preparation, Reactions and Structure
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	
06.5.2021	
07.5.2021	Organomercurycompounds : Preparation, Reactions and Structure
08.5.2021	Metal alkene complexes and their Bonding
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	
13.5.2021	
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Metal carbonyls : Preparation, Reactions, Bonding
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	
20.5.2021	
21.5.2021	Acids and Bases - Different Concepts
22.5.2021	Relative Strength of Acids and Bases

23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	
27.5.2021	
28.5.2021	Test of Organometallic Chemistry
29.5.2021	Effect of substituents on acidic/basic strength
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	
03.6.2021	
4.6.2021	HSAB concept of Acids and Bases
5.6.2021	Effect of Electronegativity and effect of Solvent
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	
10.6.2021	
11.6.2021	Revision of Acids and Bases unit
12.6.2021	Bioinorganic chemistry - Myoglobin and hemoglobin
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	
17.6.2021	
18.6.2021	Cooperative effect and Bohr effect
19.6.2021	Sodium-Potassium Pump
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Essential elements and Nitrogen Fixation
26.6 2021	Revision
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	
01.7.2021	
02.7.2021	Test of Hemoglobin and Myoglobin
03.7.2021	Preparation and structure of Silicones
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	
9.7.2021	Silicone properties, silicone fluids, silicone elastomers

10.7.2021	Phosphazenes - Preparation and properties
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	Revision

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**Name of the Assistant/Associate Professor: Pooja Malik**  
**Class and Section: B.Sc (Non-Medical) 6<sup>th</sup> Semester, Section: A**  
**Subject: Inorganic Chemistry**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 2**

**Note:-Teachers don't have their respective classes on the vacant days.**

Date	Topic to be Covered
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Introduction to Organometallic Compounds and it's Types
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	
20.4.2021	
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Classification of ligands and Effective atomic number
23.4.2021	
24.4.2021	
25.4.2021	<b>SUNDAY</b>
26.4.2021	
27.4.2021	
28.4.2021	Nomenclature of organometallic compounds and their Bonding
29.4.2021	Organolithium compounds : Preparation, Reactions and Structure
30.4.2021	
01.5.2021	
02.5.2021	<b>SUNDAY</b>
03.5.2021	
04.5.2021	
05.5.2021	Organotin compounds : Preparation, Reactions and Structure
06.5.2021	Organoaluminium compounds : Preparation, Reactions and Structure
07.5.2021	
08.5.2021	
9.5.2021	<b>SUNDAY</b>
10.5.2021	
11.5.2021	
12.5.2021	Organomercury compounds : Preparation, Reactions and Structure
13.5.2021	Metal alkene complexes and their Bonding
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	
16.5.2021	<b>SUNDAY</b>
17.5.2021	
18.5.2021	
19.5.2021	Metal carbonyls : Preparation, Reactions, Bonding
20.5.2021	Acids and Bases - Different Concepts
21.5.2021	

22.5.2021	
23.5.2021	<b>SUNDAY</b>
24.5.2021	
25.5.2021	
26.5.2021	Relative Strength of Acids and Bases
27.5.2021	Test of Organometallic Chemistry
28.5.2021	
29.5.2021	
30.5.2021	<b>SUNDAY</b>
31.5.2021	
01.6.2021	
02.6.2021	Effect of substituents on acidic/basic strength
03.6.2021	HSAB concept of Acids and Bases
4.6.2021	
5.6.2021	
6.6..2021	<b>SUNDAY</b>
7.6.2021	
8.6..2021	
9.6.2021	Effect of Electronegativity and effect of Solvent
10.6.2021	Revision of Acids and Bases unit
11.6.2021	
12.6.2021	
13.6.2021	<b>SUNDAY</b>
14.6..2021	
15.6.2021	
16.6.2021	Bioinorganic chemistry - Myoglobin and hemoglobin
17.6.2021	Cooperative effect and Bohr effect
18.6.2021	
19.6.2021	
20.6.2021	<b>SUNDAY</b>
21.6.2021	
22..6.2021	
23.6.2021	Sodium-Potassium Pump
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	
26.6.2021	
27.6.2021	<b>SUNDAY</b>
28.6.2021	
29.6.2021	
30.6.2021	Essential elements and Nitrogen Fixation
01.7.2021	Test of Hemoglobin and Myoglobin
02.7.2021	
03.7.2021	
4.7.2021	<b>SUNDAY</b>
5.7.2021	
6.7..2021	
7.7.2021	
8.7..2021	

9.7.2021	
10.7.2021	
11.7.2021	<b>SUNDAY</b>
12.7.2021	
13.7.2021	
14.7..2021	
15.7.2021	
16.7.2021	

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**Name of the Assistant/Associate Professor: Dr.Nupur Srivastava**  
**Class and Section: M.Sc. 4<sup>th</sup> semester**  
**Subject: Graph Theory 17MM24SC2**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 06**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	Introduction of subject and syllabus
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Definition and types of graphs
16.4.2021	On leave
17.4.2021	Walk
18.4.2021	<b>SUNDAY</b>
19.4.2021	Paths and circuits
20.4.2021	Problems on topic
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Connected graph
23.4.2021	Disconnected graph
24.4.2021	Application of graph
25.4.2021	<b>SUNDAY</b>
26.4.2021	Revision
27.4.2021	Test
28.4.2021	Doubt class
29.4.2021	Operations on graph
30.4.2021	Graph representation
01.5.2021	Isomorphism of graph
02.5.2021	<b>SUNDAY</b>
03.5.2021	Revision
04.5.2021	Doubt class
05.5.2021	Election path
06.5.2021	Hamiltonian path
07.5.2021	Test
08.5.2021	Shortest path in weighted graph
9.5.2021	<b>SUNDAY</b>
10.5.2021	The traveling sales person problem
11.5.2021	Planner graphs
12.5.2021	Problems on topic
13.5.2021	Revisions
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Doubt class
16.5.2021	<b>SUNDAY</b>
17.5.2021	Presentation
18.5.2021	Detection of planarity
19.5.2021	Krakowski theorem
20.5.2021	Graph coloring
21.5.2021	Problem on topic
22.5.2021	Directed graph
23.5.2021	<b>SUNDAY</b>

24.5.2021	Tree
25.5.2021	Tree terminology
26.5.2021	Rooted labeled trees
27.5.2021	Revision
28.5.2021	Doubt class
29.5.2021	Prefix code
30.5.2021	<b>SUNDAY</b>
31.5.2021	Revision
01.6.2021	Presentation
02.6.2021	Presentation
03.6.2021	Binary search tree
4.6.2021	Tree traversal
5.6.2021	Test
6.6..2021	<b>SUNDAY</b>
7.6.2021	Doubt class
8.6..2021	Assignment discussion
9.6.2021	Assignment discussion
10.6.2021	Spanning trees
11.6.2021	Cut sets
12.6.2021	Minimum spanning tree
13.6.2021	<b>SUNDAY</b>
14.6..2021	Revision
15.6.2021	Problem on topic
16.6.2021	Problem on topic
17.6.2021	Kruskal algorithm
18.6.2021	Prim algorithm
19.6.2021	Revision
20.6.2021	<b>SUNDAY</b>
21.6.2021	Revision
22..6.2021	Presentation
23.6.2021	Decreasing tree
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Sorting method
26.6.2021	Problems on topic
27.6.2021	<b>SUNDAY</b>
28.6.2021	Test
29.6.2021	Revisions
30.6.2021	Presentation
01.7.2021	Revision
02.7.2021	Doubt class
03.7.2021	Test
4.7.2021	<b>SUNDAY</b>
5.7.2021	Doubt class
6.7..2021	Topic discussion

7.7.2021	Revision class
8.7..2021	Doubt class
9.7.2021	Test

10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revisions
13.7.2021	Revisions
14.7..2021	Revisions
15.7.2021	Doubt class
16.7.2021	Doubt class

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**Name of the Assistant/Associate Professor: Dr. Nupur Srivastava**  
**Class and Section: M.Sc. 4<sup>th</sup> Semester**  
**Subject: Viscous Fluids Dynamics**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 06**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	Vortices in two dimensions, circular and rectilinear vortices
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Vortex doublet
16.4.2021	On leave
17.4.2021	Images, Motion due to vortices
18.4.2021	<b>SUNDAY</b>
19.4.2021	Single and double rows vortices
20.4.2021	Karman vortex street
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Wave equation in a gas, speed of sound in gas
23.4.2021	Equation of motion of gas
24.4.2021	Subsonic, sonic and subsonic flows
25.4.2021	<b>SUNDAY</b>
26.4.2021	Flow through a nozzle
27.4.2021	Stress components, relation between Cartesian components of stress
28.4.2021	Translational motion of fluid element rates of strain
29.4.2021	Transformation of rates of strains, relation between stresses and rates of strain
30.4.2021	Coefficient of viscosity and laminar flow
01.5.2021	Newtonian and non newton ion fluids
02.5.2021	<b>SUNDAY</b>
03.5.2021	Navier Stoke equations of motion equation of motion in cylindrical and polar Co ordinates
04.5.2021	Equation of energy
05.5.2021	Diffusion of vorticity
06.5.2021	Energy dissipation due to viscosity
07.5.2021	Test
08.5.2021	Equation of state
9.5.2021	<b>SUNDAY</b>
10.5.2021	Plane Priscilla and Courtney flows between two parallel plates
11.5.2021	Theory of lubrication, Poiseuille flow
12.5.2021	STEADY Flow between coaxial circular cylinders
13.5.2021	Flow through tubes of uniform elliptic and equilateral triangular cross section
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Unsteady flow over a plate
16.5.2021	<b>SUNDAY</b>
17.5.2021	Steady flow past a fixed sphere
18.5.2021	Flow in convergent and divergent channels
19.5.2021	Doubt class
20.5.2021	Revision
21.5.2021	Group discussion
22.5.2021	Assignment discussion
23.5.2021	<b>SUNDAY</b>

24.5.2021	Dynamical similarity
25.5.2021	Inspection analysis
26.5.2021	Non dimensional numbers
27.5.2021	Doubt class
28.5.2021	Group discussion
29.5.2021	Doubt class
30.5.2021	<b>SUNDAY</b>
31.5.2021	Revision
01.6.2021	Revision
02.6.2021	Test
03.6.2021	Non dimensional number
4.6.2021	Dimensional analysis
5.6.2021	Buckingham pie theorem
6.6..2021	<b>SUNDAY</b>
7.6.2021	Revision
8.6..2021	Revision
9.6.2021	Revision
10.6.2021	Group discussion
11.6.2021	Assignment discussion
12.6.2021	Presentation
13.6.2021	<b>SUNDAY</b>
14.6..2021	Presentations
15.6.2021	Presentation
16.6.2021	Application of pie theorem
17.6.2021	Physical importance of non-dimensional parameters
18.6.2021	Revision
19.6.2021	Revision
20.6.2021	<b>SUNDAY</b>
21.6.2021	Prandtl boundary layer
22..6.2021	Boundary layer equation in two dimensions
23.6.2021	Boundary layer on flat plate
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Characteristic boundary layer parameter
26.6.2021	Karman integral conditions
27.6.2021	<b>SUNDAY</b>
28.6.2021	Karman Pohlhausen method
29.6.2021	Revision
30.6.2021	Presentation
01.7.2021	Presentation
02.7.2021	Doubt class
03.7.2021	Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7..2021	Revision
7.7.2021	Revision
8.7..2021	Doubt class
9.7.2021	Doubt class
10.7.2021	Doubt class
11.7.2021	<b>SUNDAY</b>

12.7.2021	Test
13.7.2021	Revision
14.7..2021	Discussion of important topics
15.7.2021	Revision
16.7.2021	Doubt class

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**Name of the Assistant/Associate Professor: Dr. Nupur Srivastava**  
**Class and Section: M.Sc. 4<sup>th</sup> Semester**  
**Subject: Viscous Fluids Dynamics**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 06**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	Vortices in two dimensions, circular and rectilinear vortices
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	Vortex doublet
16.4.2021	On leave
17.4.2021	Images, Motion due to vortices
18.4.2021	<b>SUNDAY</b>
19.4.2021	Single and double rows vortices
20.4.2021	Karman vortex street
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Wave equation in a gas, speed of sound in gas
23.4.2021	Equation of motion of gas
24.4.2021	Subsonic, sonic and supersonic flows
25.4.2021	<b>SUNDAY</b>
26.4.2021	Flow through a nozzle
27.4.2021	Stress components, relation between Cartesian components of stress
28.4.2021	Translational motion of fluid element rates of strain
29.4.2021	Transformation of rates of strains, relation between stresses and rates of strain
30.4.2021	Coefficient of viscosity and laminar flow
01.5.2021	Newtonian and non newton ion fluids
02.5.2021	<b>SUNDAY</b>
03.5.2021	Navier Stoke equations of motion equation of motion in cylindrical and polar Co ordinates
04.5.2021	Equation of energy
05.5.2021	Diffusion of vorticity
06.5.2021	Energy dissipation due to viscosity
07.5.2021	Test
08.5.2021	Equation of state
9.5.2021	<b>SUNDAY</b>
10.5.2021	Plane Priscilla and Courtney flows between two parallel plates
11.5.2021	Theory of lubrication, Poiseuille flow
12.5.2021	STEADY Flow between coaxial circular cylinders
13.5.2021	Flow through tubes of uniform elliptic and equilateral triangular cross section
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Unsteady flow over a plate
16.5.2021	<b>SUNDAY</b>
17.5.2021	Steady flow past a fixed sphere
18.5.2021	Flow in convergent and divergent channels
19.5.2021	Doubt class
20.5.2021	Revision
21.5.2021	Group discussion
22.5.2021	Assignment discussion

23.5.2021	<b>SUNDAY</b>
24.5.2021	Dynamical similarity
25.5.2021	Inspection analysis
26.5.2021	Non dimensional numbers
27.5.2021	Doubt class
28.5.2021	Group discussion
29.5.2021	Doubt class
30.5.2021	<b>SUNDAY</b>
31.5.2021	Revision
01.6.2021	Revision
02.6.2021	Test
03.6.2021	Non dimensional number
4.6.2021	Dimensional analysis
5.6.2021	Buckingham pie theorem
6.6..2021	<b>SUNDAY</b>
7.6.2021	Revision
8.6..2021	Revision
9.6.2021	Revision
10.6.2021	Group discussion
11.6.2021	Assignment discussion
12.6.2021	Presentation
13.6.2021	<b>SUNDAY</b>
14.6..2021	Presentations
15.6.2021	Presentation
16.6.2021	Application of pie theorem
17.6.2021	Physical importance of non-dimensional parameters
18.6.2021	Revision
19.6.2021	Revision
20.6.2021	<b>SUNDAY</b>
21.6.2021	Prandtl boundary layer
22..6.2021	Boundary layer equation in two dimensions
23.6.2021	Boundary layer on flat plate
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Characteristic boundary layer parameter
26.6.2021	Karman integral conditions
27.6.2021	<b>SUNDAY</b>
28.6.2021	Karman Pohlhausen method
29.6.2021	Revision
30.6.2021	Presentation
01.7.2021	Presentation
02.7.2021	Doubt class
03.7.2021	Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7.2021	Revision
7.7.2021	Revision
8.7..2021	Doubt class
9.7.2021	Doubt class
10.7.2021	Doubt class

11.7.2021	<b>SUNDAY</b>
12.7.2021	Test
13.7.2021	Revision
14.7.2021	Discussion of important topics
15.7.2021	Revision
16.7.2021	Doubt class

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**Name of the Assistant/Associate Professor: Dr. Nupur Srivastava**  
**Class and Section: B.Sc. 4<sup>th</sup> Semester**  
**Subject: Sequence and Series**  
**Mode of Teaching: Online & Offline**  
**Lectures Per Week: 06**

<b>Date</b>	<b>Topic to be Covered</b>
12.4.2021	
13.4.2021	
14.4.2021	<b>DR B.R AMBEDKAR JAYANTI</b>
15.4.2021	
16.4.2021	
17.4.2021	
18.4.2021	<b>SUNDAY</b>
19.4.2021	Introduction
20.4.2021	Boundedness of set of real numbers
21.4.2021	<b>RAM NAVMI</b>
22.4.2021	Least upper bound
23.4.2021	Greatest lower bound
24.4.2021	Neighborhood
25.4.2021	<b>SUNDAY</b>
26.4.2021	Interior points
27.4.2021	Isolated points
28.4.2021	Limit points, open set and closed set
29.4.2021	Interior of a set
30.4.2021	Closure of set
01.5.2021	Bolzano-weier strass theorem
02.5.2021	<b>SUNDAY</b>
03.5.2021	Open cover
04.5.2021	Compact set
05.5.2021	Heineken bored theorem
06.5.2021	Sequence
07.5.2021	Revision
08.5.2021	Test
9.5.2021	<b>SUNDAY</b>
10.5.2021	Real sequence and their convergence
11.5.2021	Theorem on limits
12.5.2021	Theorem
13.5.2021	Theorem
14.5.2021	<b>LORD PARSHURAM JAYANTI</b>
15.5.2021	Bounded sequence
16.5.2021	<b>SUNDAY</b>
17.5.2021	Monotonic sequence
18.5.2021	Theorem
19.5.2021	Theorem
20.5.2021	Catchy sequence
21.5.2021	Catchy general principles of convergence
22.5.2021	Subsequences
23.5.2021	<b>SUNDAY</b>

24.5.2021	Subsequently limits
25.5.2021	Infinite series
26.5.2021	Convergence and divergence of infinite series
27.5.2021	Revision
28.5.2021	Theorems
29.5.2021	Comparison test of positive terms of infinite series
30.5.2021	<b>SUNDAY</b>
31.5.2021	Catchy general principle of convergence of series
01.6.2021	Convergence and divergence of geometric series
02.6.2021	Hyper harmonic series or p test
03.6.2021	Revision
4.6.2021	Infinite series D Alembert ratio test
5.6.2021	Logarithmic test
6.6..2021	<b>SUNDAY</b>
7.6.2021	De margin and Bertrand test
8.6..2021	Catchy n root test
9.6.2021	Gauss test
10.6.2021	Catchy integral test
11.6.2021	Revision
12.6.2021	Test
13.6.2021	<b>SUNDAY</b>
14.6..2021	Catchy condensation test
15.6.2021	Alternating series
16.6.2021	Leibnitz test
17.6.2021	Absolute and conditional convergence
18.6.2021	Arbitrary series
19.6.2021	Leibnitz test
20.6.2021	<b>SUNDAY</b>
21.6.2021	Abel's lemma and test
22..6.2021	Dirichlet's test
23.6.2021	Insertion and removal
24.6.2021	<b>SANT KABIR JAYANTI</b>
25.6.2021	Rearrangement of series
26.6.2021	Dirichlet's theorem Reimann theorem
27.6.2021	<b>SUNDAY</b>
28.6.2021	Multiplication of series
29.6.2021	Catchy product of series
30.6.2021	Convergence and absolute convergence of infinite product
01.7.2021	Revision
02.7.2021	Test
03.7.2021	Revision
4.7.2021	<b>SUNDAY</b>
5.7.2021	Revision
6.7..2021	Revision

7.7.2021	Doubt class
8.7..2021	Doubt class
9.7.2021	Discussion of important topics

10.7.2021	Revision
11.7.2021	<b>SUNDAY</b>
12.7.2021	Revision
13.7.2021	Revision
14.7..2021	Doubt class
15.7.2021	Doubt class
16.7.2021	Doubt class

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**Name of the Assistant/Associate Professor: Dr.Nupur Srivastava**  
**Class and Section: M.Sc 2<sup>nd</sup> Semester**  
**Subject: Measure theory**  
**Mode of Teaching: Online &Offline**  
**Lectures Per Week: 06**

<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	Introduction of syllabus
25.5.2021	Set functions elementary operation on measure
26.5.2021	Measurable sets and their fundamental properties
27.5.2021	Lebesgue measures
28.5.2021	Algebra of measurable sets
29.5.2021	Test
30.5.2021	Borel sets
31.5.2021	Equivalent formulation of measurable sets
01.6.2021	Closed set Non measurable sets
02.6.2021	Measurable function
03.6.2021	Equivalent formulation
4.6.2021	Doubt class
5.6.2021	Properties of measurable functions
6.6..2021	<b>SUNDAY</b>
7.6.2021	Approximations of measurable function
8.6.2021 to 30.6.2021	University exam
01.7.2021	Lusin ttheorem
02.7.2021	Convergence in measure Rieze function
03.7.2021	Shortcomings of Riemann integral
04.7.2021	<b>SUNDAY</b>
05.7.2021	Lebesgue integral as generalization of Riemann integral
06.7.2021	Bounded convergence theorem
07.7.2021	Doubt class
08.7.2021	Test
09.7.2021	Lebesgue theorem
10.7.2021	Fatal lemma monotonic convergence theorem
11.7.2021	<b>SUNDAY</b>
12.7.2021	Vitali converging lemma
13.7.2021	Differentiation of moronic functions
14.7.2021	Function of bounded variation
15.7.2021	Difference of monotonic function
16.7.2021	Function of bounded variation
17.7.2021	Doubt class
18.7.2021	<b>SUNDAY</b>
19.7.2021	Doubt class
20.7.2021	Test
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Difference of indefinite integral
23.7.2021	Fundamental theorem of calculus
24.7.2021	Doubt class
25.7.2021	<b>SUNDAY</b>

26.7.2021	Doubt class
27.6.2021	Doubt class
28.7.2021	Absolutely continuous functions
29.7.2021	Properties of functions
30.7.2021	Theorems
31.7.2021	Theorems
01.8.2021	<b>SUNDAY</b>
02.8.2021	Revisions
03.8.2021	Revisions
04.8.2021	Doubts class
05.8.2021	Doubt class
06.8.2021	Test
07.8.2021	Revision
08.8.2021	<b>SUNDAY</b>
09.8.2021	Revisions
10.8.2021	Revisions
11.8.2021	Doubt class
12.8.2021	Doubt class
13.8.2021	Doubt class
14.8.2021	Test
15.8.2021	<b>SUNDAY</b>
16.8.2021	Revisions
17.8.2021	Revisions
18.8.2021	Revisions
19.8.2021	Test
20.8.2021	Mohrram
21.8.2021	Test
22.8.2021	<b>SUNDAY</b>
23.8.2021	Test
24.8.2021	Test

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<b>Name of the Assistant/Associate Professor: Ms. Pooja Yadav</b>	
<b>Class and Section: M. Sc. ( Maths)-2<sup>nd</sup> Semester</b>	
<b>Subject: Integral equations and Calculus of variations</b>	
<b>Mode of Teaching: Online &amp;Offline</b>	
<b>Lectures Per Week: 06</b>	
<b>Date</b>	<b>Topic to be Covered</b>
24.5.2021	Introduction to Integral equations
25.5.2021	Volterra integral equations
26.5.2021	Leibnitz rule
27.5.2021	IVP reduced to VIE
28.5.2021	Practice questions
29.5.2021	VIE reduced to IVP
30.5.2021	<b>SUNDAY</b>
31.5.2021	Method of successive approximation to solve VIE
01.6.2021	It's examples
02.6.2021	Method of successive substitution
03.6.2021	Resolvent kernel
04.6.2021	Use of resolvent kernel to solve VIE
05.6.2021	Laplace transform to solve VIE of 2nd kind
06.6.2021	<b>SUNDAY</b>
07.6.2021	Examples
08.6.2021 to 30.6.2021	University exam
01.7.2021	Solution of VIE of 1st kind
02.7.2021	Doubt solve
03.7.2021	Fredholm integral equation
04.7.2021	<b>SUNDAY</b>
05.7.2021	BVP reduced to FIE
06.7.2021	It's examples
07.7.2021	Method of successive approximation to solve FIE
08.7.2021	Assignment
09.7.2021	Resolvent kernel and it's application
10.7.2021	Green's function
11.7.2021	<b>SUNDAY</b>
12.7.2021	Construction of Green's function
13.7.2021	Properties of Green's function
14.7.2021	Assignment
15.7.2021	Exercise question
16.7.2021	Doubt class
17.7.2021	Strum liouville problem
18.7.2021	<b>SUNDAY</b>
19.7.2021	Orthogonal series representation of Green's function
20.7.2021	Non homogeneous boundary value problem
21.7.2021	<b>ID UL ZUHA</b>
22.7.2021	Eigenvalues and eigen functions
23.7.2021	Fredholm integral equation and green's function
24.7.2021	Contruction of Green' s function associated with BVP
25.7.2021	<b>SUNDAY</b>
26.7.2021	Examples

27.6.2021	Exercise questions
28.7.2021	Doubt class
29.7.2021	Assignment
30.7.2021	Introduction to Calculus of variations
31.7.2021	Examples
01.8.2021	<b>SUNDAY</b>
02.8.2021	Some lemma proved
03.8.2021	Weak and strong extremum
04.8.2021	Derivation of Euler's equation
05.8.2021	Different cases of Euler's equation
06.8.2021	Examples
07.8.2021	Exercise question
08.8.2021	<b>SUNDAY</b>
09.8.2021	Doubt solve
10.8.2021	Brachis to chrono problem
11.8.2021	Example discussion
12.8.2021	Functional dependent on n functions
13.8.2021	Examples based on above topic
14.8.2021	Doubt solve
15.8.2021	<b>SUNDAY</b>
16.8.2021	Theorem of Geodesics
17.8.2021	Euler's equation on geodesic
18.8.2021	Functional dependent on higher order derivative
19.8.2021	It's example
20.8.2021	Mohrram
21.8.2021	The Isoperimetric problem
22.8.2021	<b>SUNDAY</b>
23.8.2021	Doubt class
24.8.2021	Previous year question paper discuss