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LESSON PLAN 2022-2023

Ancillary Chemistry

(UG -Odd & Even Semester)



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LESSON PLAN 2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : I

Sub. Code: 22OUZOGECH1

Title of the Paper: Chemistry-I-Inorganic, Organic & Physical Chemistry

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July	I	Water: Hardness of water-Types of Hardness - methods, removal of Temporary hardness - removal of Permanent hardness - Industrial implications of hardness in water-Estimation of hardness by EDTA method - units of hardness of water.	I B.Sc Zoology	10	Chalk and Talk Seminar, Group Discussion	MARY
August	П	Periodic Table :Mendeleef's Periodic table -characteristics of Mendeleef's periodic table - merits and demerits - Modern periodic table -Periodic variations in properties - Atomic radius - Ionisation potential, Electron affinity- metallic and non metallic characters.	I B.Sc Zoology	tool to a superior of the supe	Chalk and Talk Seminar, Group Discussion	pa. Eq. d
ер	Ш	Dyes: Definition- theory of colour and constitution- chromophore – auxochrome theory - classification: Based on chemical structure, based on their mode of application – preparation and uses: Methyl orange, congo red, malachite green.	I B.Sc Zoology	11	Chalk and Talk Seminar, Group Discussion	pt.84

Oct	IV	Definition, voltaic cells: Definition, voltaic cells - Daniell cell - Measurement of the EMF of a cell - cell reaction - Single electrode potentials - oxidation - reduction potentials - Gas electrodes - hydrogen electrode, chlorine electrode - EMF of cell in terms of Single Electrode Potential - Determination of Single Electrode Potentials with examples - Commercial cells - Leclanche cell and Lead acid storage cell.	1 B.Sc Zoology	14	Chalk and Talk Seminar, Group Discussion	art
Nov	V	Colloids: Definition - size of colloidal particles - classification-differences between lyophilic sols and lyophobic sols - preparation of sols-dispersion Method: Bredig's arc method, peptization - properties: Optical property-tyndall effect, kinectic property-brownian movement, electrical property-electrical double layer-application of colloids - colloidal medicines, sewage disposal, purification of water, artificial rain.	I B.Sc Zoology	14	Chalk and Talk Seminar, Group Discussion	18-18-18



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LESSON PLAN 2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : I

Sub. Code: 22OUMAGECH1

Title of the Paper: Chemistry-I-Inorganic, Organic & Physical Chemistry

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July	r	Water: Hardness of water-Types of Hardness - methods, removal of Temporary hardness - removal of Permanent hardness - Industrial implications of hardness in water-Estimation of hardness by EDTA method - units of hardness of water.	I B.Sc Maths	10	Chalk and Talk Seminar, Group Discussion	W.M.
August	В	Periodic Table :Mendeleef's Periodic table -characteristics of Mendeleef's periodic table - merits and demerits - Modern periodic table - Periodic variations in properties - Atomic radius - Ionisation potential, Electron affinity- metallic and non metallic characters.	I B.Sc Maths	11 (1977)	Chalk and	Not
sep	Ш	Dyes: Definition- theory of colour and constitution-chromophore — auxochrome theory - classification: Based on chemical structure, based on their mode of application — preparation and uses: Methyl orange, congo red, malachite green.	I B.Sc Maths	11	Chalk and Talk Seminar, Group Discussion	NA

Oct	IV	Definition, voltaic cells: Definition, voltaic cells: Daniell cell Measurement of the EMF of a cell - cell reaction - Single electrode potentials - oxidation - reduction potentials - Gas electrodes - hydrogen electrode, chlorine electrode - EMF of cell in terms of Single Electrode Potential - Determination of Single Electrode Potentials with examples - Commercial cells - Leclanche cell and Lead	I B.Sc Maths	14	Chalk and Talk Seminar, Group Discussion	M.88.M	
Nov	V	acid storage cell. Colloids: Definition - size of colloidal particles - classification- differences between lyophilic sols and lyophobic sols - preparation of sols-dispersion Method: Bredig's arc method, peptization - properties: Optical property-tyndall effect, kinectic property-brownian movement, electrical property-electrical double layer-application of colloids - colloidal medicines, sewage disposal, purification of water, artificial rain.	I B.Sc Maths	14	Chalk and Talk Seminar, Group Discussion	West &	



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LESSON PLAN 2022-2028

Class: II B.Sc Zoology & Mathematics

Sem : III

Sub. Code : 21AK3

Title of the Paper: General chemistry -III

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July	1	Chemical Bonding a)Valence Bond Theory-Postulates of VB Theory -Types of overlap of Atomic orbitals- s -s Overlapping -s- p Overlapping -p - p Overlapping - Types of Covalent bond -Sigma bond, pi bond and their differences. b) Molecular Orbital Theory -Formation of molecular orbital (combination of s - s Orbital only) -Differences between bonding and anti bonding molecular orbitals-Molecular orbital diagram, Bond Order and Magnetic Properties for the following homonuclear diatomic molecules -Hydrogen, Helium and Nitrogen.	II B Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	c-b-
ugust	II	Oxidation and Reduction- Electronic concept of Oxidation and Reduction- oxidation number- differences between oxidation number and valency- rules for calculating oxidation number- solved examples- concept of - oxidising agents and reducing agents-redox reactions and half reactions. Modern concepts of Acids and Bases-Arrhenius concept, bronsted-lowry concept, Lewis concept and Usanovich concept- relative strengths of acids and bases — amphoteric solvents- Levelling effects.	II B Sc Zoology	13	Chalk and Talk Seminar, Group Discussion	cL

sep	113	Halogen Compounds-Aliphatic halogen compounds -Preparation, Properties and uses of Chloroform and Carbon Tetrachloride - Aromatic halogen compounds - Preparation, Properties and uses of Chlorobenzene -Mechanism of aliphatic nucleophilic substitution -SN ¹ - Explanation with Example -SN ² - Explanation with Example Differences between SN ¹ and SN ² Mechanisms.	II B Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	c.L
Oct	IV	Polymers a) Polymers-Definition-Classification of Polymerisation reactions-Addition-Polymerization-Condensation Polymerization b) fibres-Definition-Manufacture and uses of important fibres -Polyamide fibre-Polyester fibre. c) Resins - Definition -Manufacture and uses of Amino resin, Unsaturated Polyester resin. d) Plastics - Definition -Classification of Plastic -Thermoplastics -Thermo setting plastics- Manufacture and uses of Polythene and PolyVinyl Chloride.	II B.Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	2-6
Nov	v	Ionic Equilibria-Ionic Product of Water -Hydrolysis - definition - Nature of Salts solution undergoing Hydrolysis, degree of Hydrolysis and Hydrolysis constant of the following-Salts of strong acid and strong base-Salts of weak acid and strong base- Salts of strong acid and weak base -Salts of weak acid and weak base	II B.Sc Zoology	11	Chalk and Talk Seminar, Group Discussion	c-6



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LESSON PLAN

2022-2023 Class : II B.Sc Zoology & Mathematics

Sem : III

Sub. Code : 21AK3

Title of the Paper: General chemistry -III

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode	Course Teacher
July	1	Chemical Bonding a)Valence Bond Theory-Postulates of VB Theory -Types of overlap of Atomic orbitals- s -s Overlapping -s- p Overlapping -p - p Overlapping - Types of Covalent bond -Sigma bond, pi bond and their differences. b) Molecular Orbital Theory -Formation of molecular orbital (combination of s - s Orbital only) -Differences between bonding and anti bonding molecular orbitals-Molecular orbital diagram, Bond Order and Magnetic Properties for the following homonuclear diatomic	II B.Sc Maths	to the state of th	& Methods Chalk and Talk Seminar, Group Discussion	Signature
August		molecules -Hydrogen, Helium and Nitrogen. Oxidation and Reduction-	II B.Sc	nestricitus nestruce de l'exemple de	ordina de vind 8º de com progré à capati	
		Electronic concept of Oxidation and Reduction-oxidation number-differences between oxidation number and valency-rules for calculating oxidation number-	Maths	To proper years about a control of the control of t	The state states and the states and the states and the states are	
		solved examples- concept of - oxidising agents and reducing agents-redox reactions and half reactions. Modern concepts of Acids and Bases-Arrhenius concept, bronsted-lowry concept, Lewis concept and Usanovich concept- relative strengths of acids and bases -amphoteric solvents- Levelling effects.		13	Chalk and Talk Seminar, Group Discussion	c-L

sep	0	Halogen Compounds-Aliphatic halogen compounds -Preparation, Properties and uses of Chloroform and Carbon Tetrachloride - Aromatic halogen compounds - Preparation, Properties and uses of Chlorobenzene -Mechanism of aliphatic nucleophilic substitution -SN¹ - Explanation with Example -SN² - Explanation with Example Differences between SN¹ and SN² Mechanisms.	27.23.3 1.25.	12	Chalk and Talk Seminar, Group Discussion	c.L	1
Oct	IV	Polymers a) Polymers-Definition-Classification of Polymerisation reactions-Addition-Polymerization-Condensation Polymerization. b) fibres-Definition-Manufacture and uses of important fibres -Polyamide fibre-Polyester fibre. c) Resins - Definition -Manufacture and uses of Amino resin, Unsaturated Polyester resin. d) Plastics - Definition -Classification of Plastic -Thermoplastics -Thermo setting plastics- Manufacture and uses of Polythene and PolyVinyl Chloride.	II B.Sc Maths	The state of the s	Chalk and Talk Seminar, Group Discussion	0-6	
Nov	V S	Ionic Equilibria-Ionic Product of Water -Hydrolysis — definition — Nature of Salts solution undergoing Hydrolysis, degree of Hydrolysis and Hydrolysis constant of the following-Salts of strong acid and strong base -Salts of weak acid and strong base- Salts of strong acid and weak base -Salts of weak acid and weak base.	Mar 14		Chalk and Talk Seminar, Group Discussion	c-6	2



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LESSON PLAN 2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : II

Sub. Code: 22OUZOGECH2

Title of the Paper: Chemistry-II - Organic, Applied & Analytical Chemistry

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan	1	Fundamental Concepts: Tetra valency of carbon- hybridisation: sp3 (CH4), sp2 (C2H4) and sp (C2H2)-bond fission: homolytic fission, heterolytic fission (one example each). Reaction intermediates: Definition - formation of carbonium ion, carbanion and free radical. Attacking reagents: Definition - nucleophiles and electrophiles (one example)	I B.Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	M. SP
Feb	D	Condensed System & Heterocyclic Compounds: Condensed system: Introduction, Naphthalene synthesis and properties (No structural elucidation). Heterocyclic compounds: Preparation and properties of furan, pyridine and quinoline.	1 B.Sc Zoology	11	Chalk and Talk Seminar, Group Discussion	Wiff
March	111	Carbohydrates: Introduction-Classification — Mono Saccharide: Glucose- preparation, properties and uses -straight chain structure, cyclic structure and Haworth's structure of glucose -conversion of glucose into fructose and vice- versa Disaccharide — sucrose manufacture, properties -structure only - distinction between glucose, fructose and sucrose.	I B.Sc Zoology	11	Chalk and Talk Seminar, Group Discussion	M.St.

April	IV	Causes of corrosion – Causes of corrosion – Classification of corrosion – Differences between chemical and electrochemical corrosion – Galvanic corrosion – Differential aeration corrosion – Pitting corrosion – Stress corrosion – Factors influencing rate of corrosion – Various methods of preventing corrosion – Application of prevention of corrosion.	I B Sc Zoology	13	Chalk and Talk Seminar, Group Discussion	Mart
May	V	Chromatographic techniques: Introduction - chromatography terms - Different chromatographic techniques and their applications - Thin layer chromatography, Paper chromatography, Ion- exchange chromatography - chromatography special techniques in current scenario.	I B.Sc Zoology	13	Chalk and Talk Seminar, Group Discussion	N.891

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LESSON PLAN 2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : II

Sub. Code: 22OUMAGECH2

Title of the Paper: Chemistry-II - Organic, Applied & Analytical Chemistry

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan	I	Fundamental Concepts: Tetra valency of carbon- hybridisation: sp3 (CH4), sp2 (C2H4) and sp (C2H2)-bond fission: homolytic fission, heterolytic fission (one example each). Reaction intermediates: Definition - formation of carbonium ion, carbanion and free radical. Attacking reagents: Definition – nucleophiles and electrophiles (one example)	I B.Sc Maths	michagorica mair ivi south south taking 12 mode having	Chalk and Talk Seminar, Group Discussion	M. J. A.
Feb	п	Condensed System & Compounds: Condensed system: Introduction, Naphthalene synthesis and properties (No structural elucidation). Heterocyclic compounds: Preparation and properties of furan, pyridine and quinoline.	I B.Sc Maths	11	Chalk and Talk Seminar, Group Discussion	W.Fra
March	Ш	Carbohydrates: Introduction-Classification - Mono Saccharide: Glucose- preparation, properties and uses -straight chain structure, cyclic structure and Haworth's structure of glucose -conversion of glucose into fructose and vice- versa. Disaccharide - sucrose manufacture, properties -structure only - distinction between glucose, fructose and sucrose.	I B.Sc Maths	11	Chalk and Talk Seminar, Group Discussion	M. Spr

April	IV	Corrosion: Definition — Causes of corrosion — Classification of corrosion — Differences between chemical and electrochemical corrosion — Galvanic corrosion — Differential aeration corrosion — Pitting corrosion — Stress corrosion — Factors influencing rate of corrosion — Various methods of preventing corrosion — Application of prevention of corrosion.	I B.Sc Maths	13	Chalk and Talk Seminar, Group Discussion	M. 2-8-194
May	v	Chromatographic techniques: Introduction - chromatography terms - Different chromatographic techniques and their applications - Thin layer chromatography, Paper chromatography, Ionexchange chromatography - chromatography special techniques in current scenario.	I B.Sc Maths	13	Chalk and Talk Seminar, Group Discussion	MARRI



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LESSON PLAN 2022-2023

Class: II B.Sc Zoology & Mathematics

Sem : IV

Sub. Code: 21AK4

Title of the Paper: General chemistry -IV

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode	Course Teacher
Jan	1	Double Salts, Alums and Coordination compounds a) Double Salts And Alums - Definition -Double Salts - Alum-Distinction between Double salts and alums - Preparation and uses of ferrous ammonium sulphate - Preparation and uses of ferric Alum b) Coordination compounds -Definition - Definition of various terms involved in Coordination	II B.Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	Signature
		Chemistry - Werner's Theory - illustrate with example - Effective Atomic Number rule with examples - Valence Bond Theory -postulates, formation of [Co(NH ₃) ₆] ³⁺ complex.		Marine Color	A have a work that I have a work to be a second to the sec	
Feb	П	Alkaloids and Terpenoids:- a) Alkaloids -Definition - Occurrence- Classification of alkaloids- Extraction of alkaloids- General Properties of alkaloids -Structure of Cocaine, Papaverine and Piperine b) Terpenoids - Definition -Isoprene rule - Line formula of Terpenoids - Classification - Occurrence- Isolation of Terpenoids (Steam distillation method) -	II B.Sc Zoology	MENTAL STREET	ST YOUR THE SERVICES	
		General properties-Structure of Citral, Geraniol, Menthol, Terpineol and Dipentene (no structural elucidation).			4703)	e native example

March	m	Organic Compounds and Industrial Organic Compounds:- a) Preparation and uses of some Important Organic Compounds - Saccharin, Salicylic acid, Aspirin, Salol and Picric acid. b) Manufacture and uses of some Industrial organic compounds -Alcoholic beverages (Beer and wine), Absolute alcohol, n-butyl alcohol and Acetone.	Zoology	H.	Chalk and Talk Seminar, Group Discussion	c-6-	
April	IV	Chemotherapy: Introduction-characteristics of a drug- Antibacterials- Definition-preparation and uses of Sulphanilamide- Antimalarials —definition- preparation and uses of chloroquine and Plasmoquine- Antibiotics- definition-classification- based on the specificity of their action, based on gram staining method- Arsenical drugs-definition- preparation and uses of Salvarsan.	II B.Sc Zoology	12	Chalk and Talk Seminar, Group Discussion	2-6	
May		Fertilizers, Insecticides, Pesticides and Fungicides a) Fertilizers - Definition-role of various elements in plant growth - Manufacture and uses of Nitrogenous fertilizers-Calcium Ammonium Nitrate-Urea- Phosphatic fertilizers - Calcium Super Phosphate - Potash fertilizers-Potassium Nitrate - Potassium Sulphate b) Definition - Classification according to the mode of action - Insecticides, Pesticides and Fungicides - Preparation and uses of DDT and BHC.	II B.Sc Zoology	13	Chalk and Talk Seminar, Group Discussion	c -/c	

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LESSON PLAN

2022-2023

Class: II B.Sc Zoology & Mathematics

Sem : IV

Sub. Code: 21AK4

Title of the Paper: General chemistry -IV

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan	1	Double Salts, Alums and Coordination compounds a) Double Salts And Alums - Definition -Double Salts - Alum-Distinction between Double salts and alums - Preparation and uses of ferrous ammonium sulphate - Preparation and uses of ferric Alum b) Coordination compounds -Definition - Definition of various terms involved in Coordination Chemistry -Werner's Theory - illustrate with example - Effective Atomic Number rule with examples -Valence Bond Theory -postulates, formation of [Co(NH ₃) ₆] ³⁺ complex.	II B.Sc Maths	Line with the second state of the second state	Chalk and Talk Seminar, Group Discussion	e-le-
Feb	П	Alkaloids and Terpenoids:- a) Alkaloids -Definition - Occurrence- Classification of alkaloids- Extraction of alkaloids- General Properties of alkaloids -Structure of Cocaine, Papaverine and Piperine. b) Terpenoids - Definition -Isoprene rule - Line formula of Terpenoids - Classification - Occurrence- Isolation of Terpenoids (Steam distillation method) - General properties-Structure of Citral, Geraniol, Menthol, Terpineol and Dipentene (no structural elucidation).	II B.Sc Maths	12		e-6

	Organic Compounds and	II B.Sc	1-91-		
March	Industrial Organic Compounds:- a) Preparation and uses of some Important Organic Compounds Saccharin, Salicylic acid Aspirin, Salol and Picric acid b) Manufacture and uses of some Industrial organic compounds -Alcoholic beverages (Beer and wine) Absolute alcohol, n-buty alcohol and Acetone.	fic	11 July 1	Chalk and Talk Seminar, Group Discussion	c-6
April	Chemotherapy Introduction-characteristics of a drug- Antibacterials Definition-preparation an uses of Sulphanilamide Antimalarials —definition preparation and uses of chloroquine an Plasmoquine- Antibiotics definition-classification- based on the specificity of their action, based on gran staining method- Arsenica drugs-definition- preparatio and uses of Salvarsan.	d d d d	12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Chalk and Talk Seminar, Group Discussion	a-1
May	Fertilizers, Insecticides Pesticides and Fungicides a Fertilizers - Definition-role of various elements in plant growth - Manufacture and uses of Nitrogenous fertilizers-Calcium Ammonium Nitrate-Urea Phosphatic fertilizers Calcium Super Phosphate Potash fertilizers-Potassium Nitrate - Potassium Sulphat b) Definition - Classification according to the mode of action - Insecticides Pesticides and Fungicides Preparation and uses of DD' and BHC.	Maths f tt d s n e n f s,	13	Chalk and Talk Seminar, Group Discussion	c-6





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LESSON PLAN 2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : 1 & II

Sub. Code: 22OUMAGECH2P

Title of the Paper: Practical – I Salt Analysis

Month	Description of the Syllabus	Class	Hours Allocated	Teaching Mode	Course Teacher
Jan	Instruction Demonstration Analysis of Anions (Acid radical) Demonstration Analysis of Cations (Basic radical)	I B.Sc Maths	12	& Methods Demonstration , Chalk and Talk, Discussion	Signature
Feb	Analysis of Anions for 2 batches Analysis of Cations for 2 batches	I B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	c. b
March	Analysis of inorganic salt – I for 2 batches Analysis of inorganic salt – II for 2 batches Analysis of inorganic salt – III for 2 batches	I B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	anh
April	Analysis of inorganic salt – IV for 2 batches Analysis of inorganic salt – V for 2 batches Analysis of inorganic salt – VI for 2 batches	I B.Sc Maths	12	Demonstration , Chalk and Talk, Discussion	0-6
- 1	Revision for 2 batches Model test for 2 batches	I B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	c-6

Signature of the HOD



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LESSON PLAN

2022-2023

Class: I B.Sc Zoology & Mathematics

Sem : 1 & 11

Sub. Code: 22OUZOGECH2P

Title of the Paper: Practical - I Salt Analysis

Total Hours: 60

Month	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan	Instruction Demonstration Analysis of Anions (Acid radical) Demonstration Analysis of Cations (Basic radical)	I B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	c.b
Feb	Analysis of Anions for 2 batches Analysis of Cations for 2 batches	1 B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	ceb
March	Analysis of inorganic salt – I for 2 batches Analysis of inorganic salt – II for 2 batches Analysis of inorganic salt – III for 2 batches	I B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	c - 6
April	Analysis of inorganic salt – IV for 2 batches Analysis of inorganic salt – V for 2 batches Analysis of inorganic salt – VI for 2 batches	I B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	c-L
May	Revision for 2 batches Model test for 2 batches	I B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	e-h

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LESSON PLAN

2022-2023

Class: II B.Sc Zoology & Mathematics

Sem : III & IV

Sub. Code: 21AK4P

Title of the Paper: Volumetric Analysis

Total Hours: 60

Month	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July	Instruction Demonstration for estimation of given solution Demonstration for estimation of given solution	II B.Sc Zoology	12	Demonstration, Chalk and Talk, Discussion	M.F.
August	Estimation of Na ₂ CO ₃ for 2 batches Estimation of Mohr's salt for 2 batches	II B.Sc Zoology	12	Demonstration, Chalk and Talk, Discussion	19.59
sep	Estimation of KMnO ₄ for 2 batches Estimation of NaOH for 2 batches	II B.Sc Zoology	12	Demonstration , Chalk and Talk, Discussion	4.81-
Oct	Estimation of FeSO ₄ for 2 batches Estimation of C ₂ H ₂ O ₄ for 2 batches	II B.Sc Zoology	12	Demonstration, Chalk and Talk, Discussion	M.F.
Nov	Revision for 2 batches Model test for 2 batches	II B.Sc Zoology	12	Demonstration, Chalk and Talk, Discussion	M. 84-

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LESSON PLAN

2022-2023

Class: II B.Sc Zoology & Mathematics

Sem : III & IV Sub. Code : 21AK4P

Title of the Paper: Volumetric Analysis

Total Hours: 60

Month	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July	Instruction Demonstration for estimation of given solution Demonstration for estimation of given solution	II B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	W. Ety
August	Estimation of Na ₂ CO ₃ for 2 batches Estimation of Mohr's salt for 2 batches	II B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	W.Eb-48
sep	Estimation of KMnO ₄ for 2 batches Estimation of NaOH for 2 batches	II B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	19. Fg-d
Oct	Estimation of FeSO ₄ for 2 batches Estimation of C ₂ H ₂ O ₄ for 2 batches	II B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	Magat
lov	Revision for 2 batches Model test for 2 batches	II B.Sc Maths	12	Demonstration, Chalk and Talk, Discussion	M. Fp. A

Signature of the HOD