

Department of Chemistry

Sr. No.	Name of the Faculty	PPT No	Title of the PPT & Link
1.	Dr. S C Jadhvar	1	Carboxylic acid -Introduction
		2	Carboxylic acid - Preparation method
		3	Co-precipitation
		4	Condensed Heterocycles
		5	Dihydric alcohol
		6	Diaccharides
		7	Gravimetric analysis
		8	HETEROCYCLIC COMPOUND
		9	HETEROCYCLIC COMPOUND - Thiophene
		10	Hydroxy Acid
		11	Monohydric alcohol
		12	Monosaccharide
		13	Alcohol
		14	Organic Synthesis - Diethyl Malonate
		15	Organic Synthesis Via Enolate

		16	Organo Lithium Compound
		17	Organometallic Compound
		18	Phenol`
		19	Polysaccharides- (glycans)
		20	Six Membered Heterocyclic compound
		21	Solubility product
		22	Synthetic polymers
		23	Synthetic Drugs
		24	Synthetic Dyes
		25	Synthetic polymers
		26	Trihydric alcohol
		27	Question bank B. SC.II Chemistry Paper -VII
		28	Question bank B. SC.II Chemistry Paper -XI

Sr. No.	Name of the Faculty	PPT No	Title of the PPT
2.	Dr. M. V. KANETKAR	1	<u>ATOMIC STRUCTURE</u>
		2	<u>GASEOUS STATE</u>
		3	<u>QUANTUM CHEMISTRY</u>
		4	<u>PHASE EQUILLIBRIUM</u>
		5	<u>CHEMICAL KINETICS</u>
		6	<u>ELECTROCHEMISTRY</u>
		7	<u>CHEMICAL THERMODYNAMICS</u>
		8	<u>INTRODUCTION TO THERMODYNAMICS</u>
		9	<u>ELECTRONIC SPECTRA OF TRANSITION METALS</u>
		10	<u>INTRODUCTION OF SOLID STATE</u>

Sr. No.	Name of the Faculty	PPT Number	Title of the PPT & Link
3.	Dr. S. R. Kale	1	Heterocyclic Chemistry
		2	IUPAC Nomenclature-Heterocyclic Compounds
		3	Photochemistry
		4	Photochemistry-I
		5	Spectroscopy
		6	IR-Spectroscopy
		7	IR- Mode of Vibration & Regions of IR
		8	IR- Problems
		9	Carbanion and Carbene
		10	Acid Rain
		11	Ozone Layer Depletion
		12	SN² and SN¹
		13	Analytical Apparatus
		14	BSc III SEM V Physical Chem.
		15	Complexometric titration

		16	<u>Precipitation titration</u>
		17	<u>Spectral Method of Analysis</u>
		18	<u>Titrimetric Analysis</u>
		19	<u>Phase Transfer Catalyst</u>
		20	<u>NGP</u>
		21	<u>SET</u>
		22	<u>SE1</u>
		23	<u>SE2</u>
		24	<u>Neighbouring Group Assistance</u>
		25	<u>Chemical Calculations</u>
		26	<u>Flame Photometry</u>
		27	<u>Acids and Bases</u>
		28	<u>pH Scale</u>
		29	<u>Buffer solution</u>
		30	<u>Solution</u>
		31	<u>Laboratory Reagents</u>

		32	<u>Laboratory Safety</u>
		33	<u>Introduction of Gravimetry</u>
		34	<u>Basic of Molecular Spectroscopy</u>
		35	<u>Visible Spectroscopy</u>
		36	<u>Titrimetric method of analysis</u>
		37	<u>Concentration</u>
		38	<u>Photochemistry (BSc)</u>
		39	<u>Quantum Efficiency and Photoreduction</u>
		40	<u>Narrish Type Reaction</u>
		41	<u>Paterno Buchi Reaction</u>
		42	<u>Photochemistry of Olefins</u>
		43	<u>Jablonski Diagram</u>
		44	<u>Stereochemistry</u>
		45	<u>Aromaticity in Heterocyclic compounds</u>
		46	<u>Analytical Balance</u>
		47	<u>Complexometric Titration</u>

		48	<u>Masking and Demasking Agent</u>
		49	<u>Global Warming</u>
		50	<u>Environmental Pollution</u>

Sr. No.	Name of the Faculty	PPT No	Title of the PPT and link
4.	Dr. P. B. Lasonkar	1	Common laboratory techniques
		2	Complexometric titration
		3	Efficiency of extraction
		4	Experimental requirements Column Chromatography
		5	Gas chromatography Instrumentation
		6	Gas chromatography
		7	Gas chromatography Applications
		8	Non-Aqueous Titrations
		9	Non-Aqueous Titrations Estimation Using Perchloric Acid
		10	Organic estimations
		11	Organic estimations Estimation of nitro group (NO₂)
		12	Principle of Column Chromatography
		13	Reaction progress by TLC
		14	Simple distillation
		15	Solvent Extraction

		16	<u>Stability of formation constant of complex</u>
		17	<u>Theory of redox titration and iodometric titration</u>
		18	<u>Theory of redox titration and iodometric titration</u> <u>Balancing redox reactions</u>
		19	<u>Theory of redox titration and iodometric titration</u> <u>Detection of endpoint in redox titration</u>
		20	<u>Theory of redox titration and iodometric titration</u> <u>Oxidation with potassium permanganate</u>
		21	<u>Theory of redox titration and iodometric titration</u> <u>Redox titration curve</u>
		22	<u>Advantages of High Frequency Method</u>
		23	<u>Applications of Polarography</u>
		24	<u>Applications of viscosity and surface tension</u>
		25	<u>Detection and measurements of nuclear radiations</u>
		26	<u>Differential scanning calorimetry (DSC)</u>
		27	<u>Diffusion controlled process</u>
		28	<u>Dropping Mercury Electrode (DME)</u>
		29	<u>Factors Affecting Fluorescence</u>
		30	<u>Factors Affecting Polarographic Wave</u>
		31	<u>Fluorimetry</u>
		32	<u>High Frequency Titrations</u>

		33	<u>Isotope Dilution Method</u>
		34	<u>Measurement of surface tension</u>
		35	<u>Measurement of viscosity</u>
		36	<u>Physical methods of analysis</u>
		37	<u>Polarography</u>
		38	<u>Polarography Polarogram</u>
		39	<u>Potentiometry</u>
		40	<u>Principles of potentiometric titrations</u>
		41	<u>Radio chemical methods of analysis</u>
		42	<u>Thermal methods of analysis</u>
		43	<u>Thermal methods of analysis Applications of TGA</u>
		44	<u>Thermal methods of analysis Applications of TGA</u>
		45	<u>Tracer technique</u>
		46	<u>Types of Potentiometric Titration</u>
		47	<u>Classification of solids by the nature of the chemical bonding of the constituents</u>
		48	<u>Close Packing Of Atoms</u>
		49	<u>Crystal Lattice and Unit Cell</u>

		50	<u>Crystallography</u>
		51	<u>Lattice planes and their designations</u>
		52	<u>Packing in ionic solids</u>
		53	<u>Symmetry elements</u>

Sr. No.	Name of the Faculty	PPT No	Title of the PPT
5.	J. M. Kondre	1	<u>Bioinorganic Chemistry_1</u>
		2	<u>Bioinorganic Chemistry_2</u>
		3	<u>Classification Of Elements and Periodicity of Elements_1</u>
		4	<u>Classification Of Elements and Periodicity of Elements_2</u>
		5	<u>Electronic Spectra of Transition Metal_1</u>
		6	<u>Electronic Spectra of Transition Metal_2</u>
		7	<u>Electronic Spectra of Transition Metal_3</u>
		8	<u>Metal Ligand Bonding</u>
		9	<u>Proton Nuclear Magnetic Resonance Spectroscopy</u>
		10	<u>Paper Chromatography</u>
		11	<u>Thin Layer Chromatography</u>
		12	<u>Atomic Structure_1</u>
		13	<u>Atomic Structure_2</u>

Sr	Name of the Faculty	PPT No	Title of the PPT	Link of the Video
6	Dr. V G Kallawe	1	Acids And Bases	
		2	Benzene And Its Reaction	
		3	Chemical Bonding ppt1	
		4	Chemical Bonding PPT 2	
		5	Chemical Bonding PPT 3	
		6	Chemical Bonding PPT 4	
		7	Chemistry of Actinides PPT	
		8	Chemistry of first transition series PPT	
		9	Chemistry of Lanthanides PPT	
		10	Chemistry of Nobel Gases PPT 1	
		11	Chemistry of Nobel Gases PPT 2	
		12	Coordination Chemistry PPT 1	
		13	Coordination Chemistry PPT 2	
		14	ESR Spectroscopy PPT 1	
		15	ESR SPECTROSCOPY PPT 2	
		16	Fundamentals Of Organic Reaction Mechanism.	
		17	Mossbauer Spectroscopy PPT 2	
		18	Mossbauer Spectroscopy PPT 3	
		19	Nuclear Chemistry PPT 1	
		20	Nuclear Chemistry PPT 2	
		21	Organic Spectroscopy PPT 2	
		22	Organic Spectroscopy PPT 4	
		23	Organic Spectroscopy PPT 5	
		24	Pericyclic Reactions PPT 2	
		25	Pericyclic Reactions PPT 3	
		26	Pericyclic Reactions PPT 4	
		27	Quantum Chemistry PPT 2	
		28	Quantum Chemistry PPT 3	
		29	Quantum Chemistry PPT 4	
		30	Quantum Chemistry PPT 5	
		31	Volumetric Analysis PPT 1	
		32	Volumetric Analysis PPT 2	
		33	Question Bank PPT	
		34	B.SC. F.Y. MCQ PPT	