



### Prayas JEE 2026 Lecture Planner - Physical Chemistry

S. No.	Batch Name	Subject	Sub- Subject	Chapter Name	Topic	Lecture Number	Date	Faculty Name
1	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Nature of Matter, Classification of Matter, Properties of Matter and their Measurement, International System of Units (S.I)	1	Monday, April 21, 2025	Faisal Razaq Sir
2	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Uncertainty in Measurement Laws of Chemical Combinations	2	Tuesday, April 22, 2025	Faisal Razaq Sir
3	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Dalton's Atomic Theory, Atomic Mass, Atomic Mass Unit,	3	Wednesday, April 23, 2025	Faisal Razaq Sir
4	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Gram Atomic Mass, Average Atomic Mass	4	Thursday, April 24, 2025	Faisal Razaq Sir
5	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Molecular Mass, Gram Molecular Mass	5	Friday, April 25, 2025	Faisal Razaq Sir
6	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Average Molecular Mass Formula Mass	6	Saturday, April 26, 2025	Faisal Razaq Sir
7	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Percentage Composition, Empirical and Molecular formula	7	Monday, April 28, 2025	Faisal Razaq Sir
8	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Mole, Vapour density, Atomicity	8	Tuesday, April 29, 2025	Faisal Razaq Sir
9	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Mole Concept	9	Wednesday, April 30, 2025	Faisal Razaq Sir
10	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Concentration Terms & Application	10	Friday, May 2, 2025	Faisal Razaq Sir
11	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Concentration Terms & Application	11	Saturday, May 3, 2025	Faisal Razaq Sir
12	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Stoichiometry and Stoichiometric Calculations Gravimetric Analysis	12	Monday, May 5, 2025	Faisal Razaq Sir
13	Prayas JEE 2026	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Sequential Reaction, POAC, Oleum Labelling Eudiometry	13	Tuesday, May 6, 2025	Faisal Razaq Sir
14	Prayas JEE 2026	Chemistry	Physical Chemistry	Redox Reaction	Introduction	1	Wednesday, May 7, 2025	Faisal Razaq Sir
15	Prayas JEE 2026	Chemistry	Physical Chemistry	Redox Reaction	Balancing of Redox Reaction Types of Redox Reaction Concept of n-Factor or Valency Factor	2	Thursday, May 8, 2025	Faisal Razaq Sir
16	Prayas JEE 2026	Chemistry	Physical Chemistry	Redox Reaction	Law of Equivalence Redox Titration	3	Friday, May 9, 2025	Faisal Razaq Sir
17	Prayas JEE 2026	Chemistry	Physical Chemistry	Redox Reaction	Iodometric and Iodimetric Titration, Redox Reactions in Electrode process	4	Saturday, May 10, 2025	Faisal Razaq Sir
18	Prayas JEE 2026	Chemistry	Physical Chemistry	Redox Reaction	Iodometric and Iodimetric Titration, Redox Reactions in Electrode process	5	Monday, May 12, 2025	Faisal Razaq Sir
19	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Binary Solution Concentration Terms	1	Tuesday, May 13, 2025	Faisal Razaq Sir
20	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Solubility Vapour Pressure Vapour Pressure of Liquid Solutions	2	Wednesday, May 14, 2025	Faisal Razaq Sir
21	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Vapour Pressure Vapour Pressure of Liquid Solutions Determination of Vapour Pressure of a Liquid Vapour Pressure of Liquid Solutions	3	Thursday, May 15, 2025	Faisal Razaq Sir
22	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Ideal and Non-ideal Solutions Colligative Properties	4	Friday, May 16, 2025	Faisal Razaq Sir
23	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Osmosis Osmotic Pressure	5	Saturday, May 17, 2025	Faisal Razaq Sir
24	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Abnormal Molar Masses	6	Monday, May 19, 2025	Faisal Razaq Sir
25	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Van't Hoff Factor and Abnormality in Molar Mass	7	Tuesday, May 20, 2025	Faisal Razaq Sir

26	Prayas JEE 2026	Chemistry	Physical Chemistry	Solutions	Abnormal Molar Masses Van't Hoff Factor and Abnormality in Molar Mass	8	Wednesday, May 21, 2025	Faisal Razaq Sir
27	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Introduction Rate of Reaction Rate Law Expression Rate constant Factors Affecting the Reaction Rate Order and molecularity of Reaction Negative Order of the Reaction Approximation	1	Thursday, May 22, 2025	Faisal Razaq Sir
28	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Integrated Rate Equations Numericals on Some Important First Order Reactions Integrated Rate Equations	2	Friday, May 23, 2025	Faisal Razaq Sir
29	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Pseudo First Order Reaction Experimental Determination of Order of Reaction Experimental Determination of Order of Reaction Collision Theory of Chemical Reactions	3	Saturday, May 24, 2025	Faisal Razaq Sir
30	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Concept of Activation Energy and Transition State Theory Activation Energy Activated Complex Theory	4	Monday, May 26, 2025	Faisal Razaq Sir
31	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Effect of Temperature on the reaction rate Temperature Dependence of the Rate of a Reaction Temperature Dependence of the Rate of a Reaction Potential Energy Curves Ratio of Two Rate Constant at Two Different Temperatures	5	Tuesday, May 27, 2025	Faisal Razaq Sir
32	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Parallel Decay Parallel Reactions Sequential Decay Kinetics of Consecutive/Sequence/Series Reactions Reversible Reaction	6	Wednesday, May 28, 2025	Faisal Razaq Sir
33	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Kinetics	Effect of Catalyst on the Reaction rate Enzyme Catalysis Nuclear Chemistry Radioactive Series and Nuclear Reactions Applications of Radioactivity	7	Thursday, May 29, 2025	Faisal Razaq Sir
34	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Introduction,Basic terms,Classification of system on the basis of nature,State of system	1	Friday, May 30, 2025	Faisal Razaq Sir
35	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Types of properties,TYPES OF THERMODYNAMIC PROCESSES ON BASIS OF THE WAY THE PROCESSES ARE CARRIED OUT Work, heat and internal energy,Ist Law of Thermodynamics Enthalpy	2	Saturday, May 31, 2025	Faisal Razaq Sir
36	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Heat Capacity	3	Monday, June 2, 2025	Faisal Razaq Sir
37	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	CALCULATION OF Q, W, $\Delta U$ & $\Delta H$ IN VARIOUS PROCESS	4	Tuesday, June 3, 2025	Faisal Razaq Sir
38	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Thermochemistry Enthalpy of a substance Standard state of substance Enthalpy of reaction Factor affecting heat of reaction LAWS OF THERMO CHEMISTRY	5	Wednesday, June 4, 2025	Faisal Razaq Sir
39	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Enthalpy change for different type of reaction ENTHALPY OF IONIZATION OF WEAK ELECTROLYTE" ENTHALPY OF TRANSITION ENTHALPY OF FORMATION OF IONS Kirchoff's Law	6	Thursday, June 5, 2025	Faisal Razaq Sir
40	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Calorimetry Limitation of Ist law of thermodynamics Spontaneous process Entropy Second law of Thermodynamics ENTROPY CHANGE OF AN IDEAL GAS	7	Saturday, June 7, 2025	Faisal Razaq Sir

41	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Entropy Change of Solids and liquids Upon Heating Entropy Calculation for solid or liquid systems	8	Monday, June 9, 2025	Faisal Razaq Sir
42	Prayas JEE 2026	Chemistry	Physical Chemistry	Thermodynamics	Standard absolute molar entropy Comparing absolute entropies of substance Entropy Change (DS) of a Chemical Reaction GIBB'S FREE ENERGY	9	Tuesday, June 10, 2025	Faisal Razaq Sir
43	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Equilibrium	Introduction, Characteristics of chemical equilibrium Law of mass action	1	Wednesday, June 11, 2025	Faisal Razaq Sir
44	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Equilibrium	Variation of equilibrium constant with the change of stoichiometric coefficients, Multiple	2	Thursday, June 12, 2025	Faisal Razaq Sir
45	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Equilibrium	Equilibrium Reaction Quotient Equilibrium Constant of Various equilibrium,	3	Friday, June 13, 2025	Faisal Razaq Sir
46	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Equilibrium	Calculation of degree of dissociation from vapour density measurement Le chatelier's principle Effect of temperature on equilibrium constant	4	Saturday, June 14, 2025	Faisal Razaq Sir
47	Prayas JEE 2026	Chemistry	Physical Chemistry	Chemical Equilibrium	Free energy and chemical equilibrium Physical Equilibrium	5	Monday, June 16, 2025	Faisal Razaq Sir
48	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	Type of electrolytes, Different theory for acid and base, The autoionization of water	1	Tuesday, June 17, 2025	Faisal Razaq Sir
49	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	The pH-Scale Ionisation of weak electrolyte	2	Wednesday, June 18, 2025	Faisal Razaq Sir
50	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	Common ion effect and levelling effect	3	Thursday, June 19, 2025	Faisal Razaq Sir
51	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	pH-Calculation Buffer Solution	4	Friday, June 20, 2025	Faisal Razaq Sir
52	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	Salt hydrolysis Indicator	5	Saturday, June 21, 2025	Faisal Razaq Sir
53	Prayas JEE 2026	Chemistry	Physical Chemistry	Ionic Equilibrium	Acid-base titration Solubility and Solubility product	6	Monday, June 23, 2025	Faisal Razaq Sir
54	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Introduction Electrochemical Cell Galvanic Cells Liquid Junction Potential or Diffusion Potential	1	Tuesday, June 24, 2025	Faisal Razaq Sir
55	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Electrochemical Cell electrodes and Electrode potential Electrochemical Cell Electrochemical Series	2	Wednesday, June 25, 2025	Faisal Razaq Sir
56	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Nernst Equation Equilibrium Constant and emf Gibbs Energy of the reaction Application of Nernst equation Various types of half cells Thermodynamics of Galvanic cell Concentration Cell	3	Thursday, June 26, 2025	Faisal Razaq Sir
57	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Electrolytes Electrolytic cell Quantitative Aspects of Electrolysis and Faraday's Laws Metallic/Electrolytic Conductors Determination of Cell Constant	4	Friday, June 27, 2025	Faisal Razaq Sir
58	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Measurement of Conductance and Conductivity of Ionic Solutions Molar Conductivity Equivalent Conductivity	5	Saturday, June 28, 2025	Faisal Razaq Sir
59	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Relation Between Molar Conductivity and Equivalent Conductivity Variation of Conductivity and Molar Conductivity with Concentration Kohlrausch's Law	6	Monday, June 30, 2025	Faisal Razaq Sir

60	Prayas JEE 2026	Chemistry	Physical Chemistry	Electrochemistry	Absolute Ionic Mobilities and their Calculation Conductometric Titrations Commercial Cells or Batteries Fuel Cells Hydrogen Economy Corrosion of Metals	7	Tuesday, July 1, 2025	Faisal Razaq Sir
61	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Introduction	1	Wednesday, July 2, 2025	Faisal Razaq Sir
62	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Fundamental Particles, Discovery of Fundamental Particles	2	Thursday, July 3, 2025	Faisal Razaq Sir
63	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Atomic Models	3	Friday, July 4, 2025	Faisal Razaq Sir
64	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Some Important Atomic Terms, Nature of Light and Electromagnetic Spectrum, Particle Nature of Electromagnetic Radiation: Planck's Quantum, Application of Planck's Quantum Theory	4	Saturday, July 5, 2025	Faisal Razaq Sir
65	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Bohr's Model for Hydrogen Atom	5	Monday, July 7, 2025	Faisal Razaq Sir
66	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Ionization Energy of Hydrogen and Hydrogen-Like Particles	6	Tuesday, July 8, 2025	Faisal Razaq Sir
67	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Spectrum: Evidence for the Quantized Electronic Energy Levels	7	Wednesday, July 9, 2025	Faisal Razaq Sir
68	Prayas JEE 2026	Chemistry	Physical Chemistry	Structure of Atom	Spectrum: Evidence for the Quantized Electronic Energy Levels Quantum Mechanical Model of the Atom Quantum Number Rules for Filling of electrons in Orbitals in Atom, Exchange and Pairing energy	8	Thursday, July 10, 2025	Faisal Razaq Sir
69	Prayas JEE 2026	Chemistry	Physical Chemistry	State of matter (Recorded)	Introduction, Intermolecular Forces The Gaseous State The Gas Laws The Gas Laws, Ideal Gas Equation Dalton's Law of Partial Pressures Graham's Law of Diffusion/effusion Kinetic Molecular Theory of Gases Kinetic Gas Equation Explanation of Gas Law from Kinetic Theory Kinetic Energy and Molecular Speeds Maxwell-Boltzmann Distribution of Molecular Speeds, Collision Theory Collision frequency Mean Free Path Behaviour of Real Gases : Deviation from Ideal Gas Behaviour Equation of State for Real Gases (Van der Waal's Equation) Liquefaction of Gases Joule - Thomson Effect Inversion Temperature Liquid State Vapour Pressure Boiling and Boiling point Viscosity Surface Tension	1	Saturday, December 20, 2025	Faisal Razaq Sir

70	Prayas JEE 2026	Chemistry	Physical Chemistry	The Solid State (Recorded)	Introduction Difference between Crystalline and amorphous solids Classification of crystalline solids Types of symmetry in crystals Some basic terms in crystalline solids Cubic unit cell(Bravais lattice) Mathematical analysis of cubic system Close packing of identical solid spheres Voids or interstitial voids Tetrahedral and Octahedral voids in close packed structure (FCC main) Radius ratio rule (For ionic solids) Structure of Ionic Compounds Effect of temperature and pressure on the crystal structure Defects or imperfections in Solids Properties of Solids:Electrical properties Super conducting materials	1	Monday, December 22, 2025	Faisal Razaq Sir
71	Prayas JEE 2026	Chemistry	Physical Chemistry	SURFACE CHEMISTRY (Recorded)	Introduction Adsorption Adsorption Isotherm Application of adsorption Catalysis Collidal State Type of Colloids Preperation of Colloidal Solution Gels Emulsion Application of Colloids	1	Tuesday, December 23, 2025	Faisal Razaq Sir