DATE	BIOLOGY AMIT SIR 7:00 PM TO 8:30 PM	CHEMISTRY AYUSHI MA'AM 2:00 PM TO 3:30 PM	PHYSICS ADITYA SIR 05:30 PM TO 07:00 PM
	UNIT - IV PLANT PHYSIOLOGY		
6-Jan-22	PLANT PHYSIOLOGY LEC-1		
		CHEMISTRY IN EVERYDAY LIFE	
7-Jan-22	PLANT PHYSIOLOGY LEC-2	Chemistry in Everyday life	
8-Jan-22	PLANT PHYSIOLOGY LEC-3		
		REDOX REACTION	Gravitation
10-Jan-22	PLANT PHYSIOLOGY LEC-3	Types of reaction, OXIDATION NO.	Introduction, Universal law of Gravitation, Gravitational constant, Acceleration due to gravity of the earth. Acceleration due to gravity below & above the surface of the earth.
	UNIT - V HUMAN PHYSIOLOGY		
11-Jan-22	DIGESTIVE SYSTEM	concept of equivalent	Gravitational potential energy, Escape speed, Earth's satellite, Energy of an orbiting satellite.
12-Jan-22	RESPIRATORY SYSTEM	balancing	Geostationary & polar satellite, Weightlessness, Kepler's laws.
			Mechanical Properties of Solids
13-Jan-22	CIRCULATORY SYSTEM	iodometric and iodimetric, double titration, back titration	Introduction, Elastic behavior of solids, Stress & strain And Numericals
14-Jan-22	EXCRETORY SYSTEM	hardness of water, oleum volume, strength	Hooke's law, Stress-strain curve, Elastic moduli, and Numericals
		S-BLOCK	
15-Jan-22	Rolle's Theorem and means value theorem,		Thermal Properties of Matter
17-Jan-22	SKELETAL SYSTEM	Alkali metal	Introduction, Temperature & Heat, Measurement of temperature, Ideal gas equation & absolute temperature,
18-Jan-22	NERVOUS SYSTEM	alkaline earth metal	Thermal expansion.Specific heat capacity, Calorimetry, Change of state.
		ENVIROMENTAL CHEMISTRY	Heat transfer, Conduction, Convection, Radiation, Stefan's Law.
19-Jan-22	ENDOCRINE SYSTEM	environmental chemistry	Wien's law, Newton's law of cooling
	UNIT - VI REPRODUCTION		Thermodynamics

20-Jan-22	SEXUAL REPRODUCTION IN FLOWERING PLANTS	polymers	Introduction, Thermal equilibrium, Zeroth law of thermodynamics, Heat internal energy and work, First law of thermodynamics.Numerical.
21-Jan-22	SEXUAL REPRODUCTION IN FLOWERING PLANTS	HYDROGEN	Thermodynamic state variables & equation of state, Thermodynamic processes,Specific heat capacity.
22-Jan-22	NO CLASS		
		P-BLOCK	
24-Jan-22	HUMAN REPRODUCTION	Boron family	Second law of thermodynamics, Reversible and irreversible process.Heat engines, Refrigerators & heat pumps, Carnot's Engine.
25-Jan-22	HUMAN REPRODUCTION	Boron family	Kinectic Theory of Gases.
			Mechanical Properties of Fluids
26-Jan-21	REPRODUCTIVE HEALTH		
	UNIT - VII GENETICS & EVOLUTION		
27-Jan-22	GENETICS	carbon family	Introduction, Pressure, Pascal's law.
28-Jan-22	GENETICS	Carbon family	Archimedes principle, Streamline flow, Bernoulli's principle.
29-Jan-22	NO CLASS		Viscosity, Reynolds number,Surface tension.
30-Jan-22	NO CLASS		
		ORGANIC CHEMISTRY (part 6)	
31-Jan-22	GENETICS	some important terms of organic	Energy in simple harmonic motion.
1-Feb-22	GENETICS	nomenclature	Time Period and its numerical.
2-Feb-22	EVOLUTION	nomenclature	Damped simple harmonic motion, Forced oscillations & resonance.
			Waves
	UNIT - VIII BIOLOGY IN HUMAN WELFARE		
3-Feb-22	HUMAN HEALTH & DISEASE	nomenclature	Introduction, Transverse & longitudinal waves.
4-Feb-22	HUMAN HEALTH & DISEASE	resonance	Displacement relation in a progressive wave, The speed of a travelling wave.The principle of super position of waves.
5-Feb-22			
7-Feb-22	STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION	resonance, tautomerism,%enol	Reflection of waves, standing waves.
8-Feb-22	MICROBES IN HUMAN WELFARE	inductive effect,hyperconjugation, electromeric effect	Beats, Tuning fork,Doppler's Effect.
			Electric Charges and Electric Field
	UNIT - IX BIOTECHNOLOGY		

9-Feb-22	BIOTECHNOLOGY	baeyer strain theory, bredt angle, steric hindrance,	Introduction, Electric charges, Conductors and insulators charging by induction,Basic properties of electric charges,
10-Feb-22	BIOTECHNOLOGY	dipole moment, stability of alkenes, heat of hydrogenation, bond length	Coulomb's law, Forces between Multiple charges, Electric field lines.
11-Feb-22	BIOTECHNOLOGY	types of intermediates, stability,rearrangement, acidic strength,basic strength	Electric field due to Continuous charge distribution,
12-Feb-22			Electric Dipole, Dipole in a uniform external field.
UNIT - X ECOLOGY		ISOMERISM	
14-Feb-22	ECOLOGY	Structural isomerism	
			Electric Potential and Capacitance
15-Feb-22	ECOLOGY	stereoisomerism	Introduction, electrostatic potential, potential due to a point charge,potential due to a system of charges
16-Feb-22	ECOLOGY	stereoisomerism	potential due to an electric dipole, Equipotential surfaces
		HYDROCARBON	
17-Feb-22	ECOLOGY	Alkanes m.o.p, physical properties	Potential energy in an external field
18-Feb-22	ECOLOGY	alkanes chemical properties	Electrostatics of conductors, dielectrics and polarization
19-Feb-22		alkenes m.o.p, physical propeerties	
21-Feb-22	ECOLOGY	chemical properties alkene	capacitors and capacitance, The parallel plate capacitor, Energy stored in a capacitor,
22-Feb-22	EXTRA CLASS	alkyne, benzene	Effect of dielectrics on capacitance, Combination of capacitors,
		HALOALKANE HALOARENE	Current Electicity
23-Feb-22	EXTRA CLASS		Introduction, Electric current, Electric currents in conductors
24-Feb-22	EXTRA CLASS	INTRO, M.O.P	Drift of electrons and the origin of resistivity,Ohm's law,Limitations of Ohm's law,
25-Feb-22	EXTRA CLASS	PHYSICAL PROPERTIES, CHEMICAL PROPERTIES	Resistivity of various material, Temperature dependence of resistivity, Electrical energy power
26-Feb-22	FINISH		Combination of resistors, series and parallel, Cells, emf. Internal resistance, cells in series and in parallel
28-Feb-22		CHEMICAL PROPERTIES	Kirchhoff's laws, Wheatstone bridge and Numericals
1-Mar-22		haloarene	Meter Bridge, Potentiometer
		ALCOHOL, PHENOL AND ETHERS	Magnetic effects of current
2-Mar-22		INTRO, M.O.P, physical properties	Introduction magnetic force, Motion in a magnetic field.
3-Mar-22		chemical properties	Motion in combined Electric and Magnetic fields.
4-Mar-22		phenols	Magnetic field due to a current element, Biot-savart's law, Magnetic field on the axis of a circular current loop
		ALDEHYDE AND KETONE	

5-Mar-22			
7-Mar-22		INTRO, M.O.P Of aldehyde and ketone	Ampere' Circuital Law, The solenoid and the toroid
8-Mar-22		m.o.p of aldehyde, m.o.p of ketone	Force between two parallel currents, Torque on current loop,
9-Mar-22		chemical properties of aldehyde and ketone	Magnetic dipole, Moving coil Galvanometer
			Magnetism And Matter, EMI
10-Mar-22		aromatic aldehyde and ketone	The Earth's magnetism, Tangent law and its application
		CARBOXYLIC ACID	
11-Mar-22		PROPERTIES, MOP, Physical properties and chemical properties	The bar magnet, Magnetism and Gauss's Law
12-Mar-22			
		AMINE	
14-Mar-22		INTRO, m.o.p	Magnetization and magnetic intensity
15-Mar-22		basicity, physical properties, chemical properties	Introduction, the experiments of Faraday and Henry, Magnetic Flux, Faraday's laws of induction,
16-Mar-22		diazonium salt, aniline	Lenz's law and conservation of energy,
		SOLUTION	
17-Mar-22		Intro	Motional electromotive force
18-Mar-22			Inductance, AC Generator
			AC Current
19-Mar-22		henry law, raoult law	Introduction AC voltage applied to a resistor representation of AC current and voltage by rotating vectors -phasors
21-Mar-22		deviation from raoult law, colligative property	AC voltage applied to an inductor, AC voltage applied to a capacitor, AC voltage applied to a series LCR circuit, Power in AC circuit,
22-Mar-22		vanthoff factor, numerical	The power factor, LC Oscillations, transformers.
		ELECTROCHEMISTRY	EM Waves
23-Mar-22		galvanic cell nd nernst equation	Introduction, Displacement currents, Electromagnetic waves, Electromagnetic spectrum.
			Dual Nature
24-Mar-22		numerical practice, product of electrolysis	Introduction, electron emission, photoelectric effect, experimental study of photoelectric effect, photoelectric effect and Einstein's photoelectric equation
25-Mar-22		conductance, faraday law	Particle nature of light the photons, Wave nature of matter, Davisson and Germer Experiment.

26-Mar-22		CHEMICAL KINETICS	Introduction, alpha particle scattering and Rutherford's nuclear model of atom, Atomic spectra, Bohr model of the hydrogen atom, the line spectra of the hydrogen atom, de Broglie's explanation of Bohr's second postulate quantization
			Nuclie
28-Mar-22		Differential rate equation, rate law, order, molecularity	Introduction, Atomic masses and composition of nucleus, size of the nucleus, Mass energy and nuclear binding energy
29-Mar-22		order of reaction, maxweell curve, arrhenious equation	Nuclear force, Radioactivity, Nuclear energy.
			Semiconductor
30-Mar-22		parallel, consecutive reaction	Introduction, Classification of metals conductors and semiconductors, Intrinsic semiconductor, Extrinsic semiconductors P – N
31-Mar-22		NUmerical practice	semiconductor diode.Application of junction diode as a rectifier special purpose P–N junction diodes.Junction transistors, digital electronics and logic gates, Integrated circuits
			Ray Optics
1-Apr-22		Numerical practice	Introduction, Reflection of light spherical mirrors
2-Apr-22		d and f BLOCK	Refraction, Refraction at spherical surface and by lenses
4-Apr-22		INTRODUCTION	Refraction through a prism
			Total internal reflection
5-Apr-22		properties	Dispersion by prism
6-Apr-22		KMnO4, K2Cr2O7	Microscope,Telescope
7-Apr-22		F BLOCK	
		CO-ORDINATION COMPOUND	
8-Apr-22		INTRO, werner theory	
9-Apr-22		nomenclature, LiGands, VBT	Wave optics
11-Apr-22		cft, Isomerism	Introduction, Huygens Principle
12-Apr-22		thermodynamics of coordination compound, synergic bonding, application	Refraction and Reflection of plane waves using Huygens principle.
13-Apr-22			Coherent and incoherent addition of waves,Interference of light waves and Young's experiment
		BIOMOLECULES	
14-Apr-22		INTRO, CARBOHYDRATES	Diffraction, Polarization.
15-Apr-22		proteins, amino acid, nucleic acid	