

Shikshak Sanchalit Shikshan Sanstha's
DSDD Arts College and Commerce and Science College,
Wada, Dist Palghar-421303
Teaching Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc Sem-III

Subject & Paper: Mechanics

Course Code:USPHMNP1

Sr. No.	Month	Unit/ Module	Topic to be covered	Lecture/ Practical/ tutorial	3 lectures/ Week
1		Unit I	Mechanics of Energy and forces	15	5 weeks
	Jun to second week of July		i) Work done by constant force, work done by variable force, Kinetic energy and work-kinetic energy theorem, Power, Potential energy, conservative and non - conservative forces, Conservative Forces and Potential Energy, Conservation of Mechanical Energy, Work Done by Nonconservative Forces, Relationship Between Conservative Forces and Potential Energy, Conservation of Energy in General, Mass–Energy Equivalence, Quantization of Energy	10	
2	July-August		ii) Equivalence of Shear strain to compression and extension strains, Relations between elastic constants, Energy stored in a strained body, couple for twist in cylinder.	5	
3		Unit-II:	Mechanics of Collisions, Elasticity & Gravitation	15	5 weeks
4	August September		Centre of mass, Motion of system of particles, Conservation of Momentum for a Two-Particle System, Concept of Angular momentum of a particle, Angular momentum for many particles system, Angular momentum of a rotating rigid body, angular momentum conservation	8	
5	October		ii) Impulse and momentum, Collisions, Elastic and Non- elastic collisions in one dimension	4	

6	First week of November		iii) Gravitational potential energy, gravitational potential, calculation of gravitational potential, calculation of gravitational field, inertial and gravitational mass.	4	
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Shikshak Sanchalit Shikshan Sanstha's

DSDD Arts College and Commerce and Science College,

Wada, Dist Palghar-421303

Teaching Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc Sem-IV

Subject & Paper: Sound

Course Code:USPHMNP2

Sr. No.	Month	Unit/ Module	Topic to be covered	Lecture/ Practical/ tutorial	3 lectures/ Week
1		Unit I	Wave Motion	15	5 weeks
	November		Wave motion, characteristic of wave motion, transverse wave, longitudinal wave, relation between frequency and wavelength, equation of Simple Harmonic Wave, particle velocity and wave velocity, energy of a progressive wave.	10	
2	December		Velocity of Sound: Velocity of longitudinal waves in gases, newton's formula for velocity of sound, effect of temperature, effect of pressure, velocity of sound in water, velocity of sound in air.	5	
3		Unit-II:	Phenomena of Sound	15	5 weeks
4	January To first week of February		Stationary waves, properties of stationary longitudinal waves, energy of stationary wave, Interference of sound waves, special cases, Conditions for Interference of sound waves, Introduction to beats. Velocity of transverse waves along a stretched string, laws of transverse wave, verification of the law transverse vibration of strings, Kundts tube, Musical sound and noise, characteristic of musical sound.	8	
5	February		Acoustics of building: reverberation, explanation of Sabine's formula and importance of Sabine's formula, absorption coefficient,	4	

6	First week of march		Acoustics of building, factors affecting acoustics of building, sound distribution in an auditorium.	4	
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DSDD Arts College and Commerce & Science College Wada, Dist. Palghar

Teaching Plan Year (2025-2026) Semester: IV

Department of Physics

Name of Faculty : Kailas Prabhakar Joshi

Duration of Teaching: Nov 2025 to March 2026

Class: S.Y.B.Sc

Subject: Physics Practical's

Course: VSC –Computer Maintenance

Hours =30

Sr.no.	Topics	Number of hours planned	Lectures per week 2/2	Duration
		30		
1.	Demonstration of Computer (open computer), computer hardware, Overview of Computer components.	2	2	November to December
2.	Explain and demonstrate sockets, and ports, Memory (RAM & ROM), Types, speeds, and capacities.	2	2	
3.	Demonstration of Internal Components of a Computer, Central Processing Unit	2	2	
4.	(CPU) Functions, types, and performance factors (comparison of different processors), Motherboard.	2	2	January To February
5.	Implementation of Drive/file sharing and printer sharing.	2	2	
6.	Explain and demonstrate sockets, and ports, Memory (RAM & ROM), Types, speeds, and capacities.	2	2	
7	Explain and demonstrate Storage Devices & Technologies, Hard Disk Drives (HDD) & Solid-State Drives (SSD), Partitioning and Formatting.	2	2	February to First week of March
8	Explain and demonstrate Storage Devices &	2	2	

	Technologies, Hard Disk Drives (HDD) & Solid-State Drives (SSD), Partitioning and Formatting.			
9	Explain and Demonstrate Cooling solutions: Air cooling vs. Liquid cooling Heat	2	2	
10	Input & Output Devices, Keyboards, mice, scanners, webcams, Monitors, projectors, and display technologies (connections and working).	2	2	


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DSDD Arts College and Commerce & Science College Wada, Dist. Palghar

Teaching Plan Year (2025-2026) Semester: III

Department of Physics

Name of Faculty : Kailas Prabhakar Joshi

Duration of Teaching: Jun 2025 to October 2026

Class: S.Y.B. Sc

Subject: Physics Practical's

Course: USPHSEC2- Battery and Inverter Testing and Maintenance

Hours = 30

Sr.no.	Topics	Number of hours planned	Lectures per week 3/hrs	Duration
		30		
1.	Study of specifications of Battery provided by the manufacturer	3	2	Last week of July to Second week of August
2.	Voltage, Capacity and Internal resistance Measurement of a Battery	3	2	
3.	Verification of Ohm's Law Using a Battery and Resistors	3	2	
4.	Series and Parallel Connection of Batteries & their effect on Voltage and Current	3	2	
5.	Measurement of Battery Terminal Voltage Under Load, No-Load Conditions and Testing Battery Performance under Load	3	2	August to Second Week of September
6.	Study of specifications of Inverter provided by the manufacturer	3	2	
7.	Drawing the Block Diagram of an Inverter and Explaining Each Block	3	2	
8.	Generating an Oscillator Signal Using a 555	3		

	Timer IC(Astable mode)			September to October
9.	Testing Transformer Primary & Secondary Voltages and Build a Simple Bridge Rectifier and Testing DC Output	3	2	
10	Analysis of Inverter Output Waveform Using an Oscilloscope	3	2	


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Shikshak Sanchalit Shikshan Sanstha's
DSDD Arts College and Commerce and Science College,
Wada, Dist Palghar-421303
Teaching Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc- Sem-III

Subject & Paper: Physics Practical's -

Course Code: USPHP-4 – **Duration of Teaching:** Jun 2025 to Dec 2026

Hours =30

Sr.no.	Topics	Number of hours planned	Lectures per week 2/2	Duration
1	Unit I	30		
	GROUP-A			
1.	Determination of Young's Modulus.	2	2	Last week of July to Second week of August
2.	Determination of acceleration due to gravity g using Kater's pendulum	2	2	
3.	Determination of Young's Modulus (Y) using Flat spiral spring	2	2	
4.	Determination of Modulus of Rigidity (η) using Flat spiral spring	2	2	
5.	Log Decrement using Simple pendulum	2	2	
6.	Determination of R.I. of liquid by laser	2	2	
	GROUP-B			
1.	LCR series Resonance	2	2	August to Second Week of September
2.	LCR parallel resonance	2	2	
3.	Thevenin's Theorem: To verify the theorems for DC circuits	2	2	
4.	Norton's Theorem: To verify the theorems for DC circuits	2	2	
5.	Passive Low Pass Filter	2	2	
6.	Passive High Pass Filter	2	2	
	GROUP-C: Skill Experiment			
1.	To find least count of different types of optical instruments	1	2	Second week of September to
2.	To calculate and measure values of passive components	1	2	

3.	To find percentage tolerance of different types of passive components	1	2	October
4.	To demonstrate an experiment and explain principles of Physics	1	2	
5.	To prepare chart for and explain the devices /components used for experiments.	1	2	
6.	Execute a short experiment which will showcase either innovation	1	2	


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Teaching Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc Sem-III

Subject & Paper: Physics Practical's

Course Code:USPHP4- Duration of Teaching: Dec 2025 to March 2026- Hours = 30

Sr.no.	Topics	Number of hours planned	Lectures per week 3	Duration
	Unit I	30		
	GROUP A			
1	Determination of Young's Modulus	2	2	Last week of July to Second week of August
2	Determination of acceleration due to gravity g using Kater's pendulum	2	2	
3	Determination of Young's Modulus (Y) using Flat spiral spring	2	2	
4	Determination of Modulus of Rigidity (η) using Flat spiral spring	2	2	
5	Log Decrement using Simple pendulum	2	2	
6	Determination of R.I. of liquid by laser	2	2	
	GROUP-B			
1	LCR series Resonance	2	2	August to Second Week of September
2	LCR parallel resonance	2	2	
3	Passive Low Pass Filter	2	2	
4	Passive High Pass Filter	2	2	
5	Passive Band Pass Filter	2	2	
6	LCR series Resonance	2	2	
	GROUP-C			
1	To find least count of different types of optical instruments	1	2	Second week of September to October
2	To calculate and measure values of passive components	1	2	
3	To find percentage tolerance of	1	2	

	different types of passive components			
4	To demonstrate an experiment and explain principles of Physics	1	2	
5	To prepare chart for and explain the devices /components used for experiments.	1	2	
6	Execute a short experiment which will showcase either innovation	1	2	


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DSDD Arts College and Commerce & Science College Wada, Dist. Palghar

i. Teaching Plan Year (2025-2026) Semester: IV

Department of Physics

Duration of Teaching: Dec 2025 to March 2026

Class: S.Y.B.Sc

Subject: Physics Practical's

Course: MAJOR USPHP4

Hours =30

Sr.no.	Topics	Number of hours planned	Lectures per week 3	Duration
	Unit I	30		Second week of December to January
	GROUP-A			
1	Brewster's law: determination of μ	2	2	
2	Determination of Absolute capacitance using BG	2	2	
3	Determination of angle of diffraction using grating 1st order only)	2	2	
4	Optical lever: determination of μ	2	2	
5	I-V Characteristics of Solar cell with different intensity of light	2	2	Month of February
6	Fresnel's bi-prism: determination of λ	2	2	
	GROUP-B			
1	J-K flip Flop: Design and verify truth table of J-K flip flop (Using IC 7476 or IC 7473)	2	2	
2	OPAMP: Inverting amplifier with different gains (BB)	2	2	
3	OPAMP Non-inverting amplifier with different gains & Voltage Follower (BB)	2	2	
4	OPAMP as Integrator (BB)	2	2	
5	CE Amplifier: Determination of Bandwidth	2	2	
6	OPAMP as Differentiator (BB)	2	2	
	GROUP-C: Skill Experiment/Optional			
1	To find least count of different types of optical instruments	1	2	
2	To calculate and measure values of passive	1	2	

	components			First week of March
3	To find percentage tolerance of different types of passive components	1	2	
4	To demonstrate an experiment and explain principles of Physics	1	2	
5	To prepare chart for and explain the devices /components used for experiments.	1	2	
6	Execute a short experiment which will showcase either innovation and / or different methods to the satisfaction of teacher in-charge of practical.	1	2	


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DSDD Arts College and Commerce and Science College,

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Practical's Teaching/working Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc Sem-III

Subject & Paper: Physics Practicals

Course Code:USPHMNP1 (MN - I)

Sr. No.	Month	Unit/ Module	Topic to be covered	Lecture/ Practical/ tutorial	lectures/ Week-2
		GROUP-A	Mechanics of Energy and forces	25	
1	Jun	GROUP-A	To determine modulus of rigidity η using Flat spiral spring	2	2
2			Determination of Dispersive power of prism using spectrometer	2	2
3			To determine Young’s modulus Y using Flat spiral spring	2	2
4	Jully	GROUP-A	Determination of acceleration due to gravity g using Kater’s pendulum	2	2
5			Log Decrement using Simple pendulum	2	2
6			Determination of Dispersive power of prism using spectrometer	2	2
7	August	GROUP-A	Determination of R.I. of liquid by laser	2	2
8	September		LCR series resonance	2	2
9			To determine the surface tension of a	2	2

			liquid using capillary rise method		
10			LCR Parallel resonance	2	2
		GROUP-B	Skill Experiments	5	5
1	September &	GROUP-B	To find least count of different types of optical instruments	2	2
2	First week		To calculate and measure values of passive components	1	1
3	of October		To find percentage tolerance of different types of passive components	1	1
4			To demonstrate an experiment and explain principles of Physics	1	1


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Practical's Teaching/working Plan

Name of Teacher: Dr. Kailas Prabhakar Joshi

Department: Physics

Academic Year: 2025-26

Class and Semester: S.Y.B.Sc Sem-IV

Subject & Paper: Practicals

Course Code:USPHMNP2 (MN - II)

Sr. No.	Month	Unit/ Module	Topic to be covered	Lecture/ Practical/ tutorial	lectures/ Week-2
		GROUP-A	Physics Practical's	25	
1	November	GROUP-A	Brewster's law: determination of μ	2	2
2			G By shunting using Moving Coil Galvanometer	2	2
3			Determination of Absolute capacitance using BG	2	2
4	December	GROUP-A	Determination of angle of diffraction using grating (Istorder only)	2	2
5			To determine wavelength of monochromatic light by using biprism.	2	2
6			Optical lever: determination of μ	2	2
7	January & February	GROUP-A	I-V Characteristics of Solar cell with different intensity of light	2	2
8			Verification of Stefans law (Electrical Method)	2	2
9			To determine the load resistance value using maximum power transfer theorem.	2	2
10			. To verify the relation between the volume of the resonating air column and the	2	2
		GROUP-B		5	5
1			To find least count of different types of	2	2

	March		optical instruments		
2		GROUP-B	To calculate and measure values of passive components	1	1
3			To find percentage tolerance of different types of passive components	1	1
4			To demonstrate an experiment and explain principles of Physics	1	1


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DSDD Arts College and Commerce & Science College Wada, Dist: Palghar

Teaching Plan 2025-2026 Semester: VI

Department of Physics

Semester Duration: Nov 2025 to May 2026

Duration of Teaching: Nov 2025 to April 2026

Class: T.Y.B.Sc Subject: Classical Mechanics Course: USPH601

Sr.no.	Topics	Number of hours planned	Lectures per week-4	Learning inputs
1	Central force	15		
	1.Motion under a central force, central force inversely proportional to the square distance	2	13 Nov 2025 to 5 Dec 2025	Newton's laws, Gravitation Kepler's-laws, moment-of-Inertia, Rotational motion
	Elliptic Orbits, The Kepler problem	2		
	2.movin origin of coordinates, Numerical	3		
	Rotating coordinate systems, Numerical	2		
	Law of motion on the rotating earth	2		
	The Foucault problems, armours theorems	2		
2	Unit II: Lagrange s equation	15	6 Dec to 24 Dec 2025	Constraints, inertial frame-of-Reference, non-inertial frame of reference, general coordinate system
	1.D"Alambertprinciple,constraints,Exa mples of holonomic constraints, examples of non holonomic constraints, degrees of freedom and generalized coordinates,	4		
	Virtual displacement, virtual work, D'Alembert's principle, illustrative problems.	3		
	2. Lagrange' equation(using D'Alembert's principle), properties of Lagrange's equations,	4		
	Illustrative problem, canonical momentum, cyclic or ignorable coordinates	2		
	Number of numerical	2		
3	Unit III : Fluid Motion and Rigid body rotation	15	First week of Jan to end of end of Jan 2026	Viscosity, Bernoulli s theorem, Degree of freedom, rotation of rigid bodies, spinning top.
	1. Kinematics of moving fluids, Equation of motion for an ideal fluid, conservation laws for fluid motion, steady flow.	4		
	2. Rigid dynamics: introduction,	4		

	degrees of freedom, rotation about an axis: orthogonal matrix,			
	Euler's theorem, Eulerian angles, inertia tensor, angular momentum of rigid body, symmetric top	4		
	Euler's equation of motion of rigid body, free motion of rigid body, motion of	2		
	Symmetric top (without notation)	1		
4	Unit IV : Non Linear Mechanics 1. Nonlinear mechanics: Qualitative approach to chaos, The anharmonic oscillator, Numerical solution of Duffing's equation. 2. Transition to chaos: Bifurcations and strange attractors, Aspects of chaotic behaviour (logistic map).	15 5 5 5	1 Feb to first week of 5 March 2026	Undamped and damped harmonic and forced oscillations Third stage of matter


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DSDD Arts College and Commerce & Science College Wada, Dist.: Palghar

Teaching Plan 2025-2026

Department of Physics

Class: T.Y.B.Sc

Subject: Solid State Physics

Course: USPH502

Duration of Semester: Jun 2025 to Nov 2025

Teaching Duration: Jun 2025 to Oct 2025

Sr.no.	Topics	Number of hours planned	Lectures per week	Inputs and Learning outcomes
1	Unit 1: Crystal Physics - General introduction of reflection, refraction, Dispersion, interference, polarisation, Types of prisms, overall revision of theories. - Lattice point and space lattice, The basis and crystal structure, Unit cells and lattice parameters, primitive cells - Crystal systems, crystal symmetry, Bravais space lattices, metallic crystal structures - Relation between density of crystal material and lattice constant in a cubic lattice - Directions, planes miller indices, important planes in scc structure - Separation between lattice planes in a cubic structure, reciprocal lattice - X-ray diffraction, classical free electron theory of metals, collision time, relaxation time and mean free path	15	Second week of Jun 2025 to second week of July 2025	General fundamentals of light are discussed with student. Students are able to understand the concepts which were strike. Inter relation between conduction convection, effect Transitions in temperatures Heat capacities were discussed. Students recalled from concept of resistance, density. Ionic gas its role in conductivity understood.
2	Unit II: Electrical properties of metal - Quantum theory of free electrons, Fermi Dirac statistics and electronic distribution in solids - Density of energy states and Fermi energy, Fermi Distribution Function, Heat capacity of electron gas - Mean energy of electron gas at 0 kelvin, electrical conductivity from Quantum mechanical consideration	15	July 2025 to second week of Aug 2025	
2	Unit II: Band theory of solids, The Kronig penny model, Brillouin zones, Number of Wave function in band, Motion			Energy, wave functions, conduction and Valence band theories were

	of electron in one dimensional periodic potential, Distinction between metals, insulator and intrinsic semiconductor			discussed, good outcomes obtained with concept of wave function Schrödinger equations and Einstein energy relations.
3	Unit III: Conduction in semiconductors Electrons in holes in intrinsic semiconductor, conductivity, carrier concentrations Fermi levels in intrinsic semiconductors, Diffusion, carrier life time The continuity equation, Hall effect Semiconductor diode characteristics: Qualitative theory of p-n junction, P-n junction as a diode, Band structure of open circuit p-n junction			Basics of conductor's insulator and semiconductors were revised and formation of PN junction Diode rectifier its application are discussed Verified with Experimental outcomes of V-I characteristic
4	Unit IV: Diode, Magnetism and super conductivity 1.The current component in a p-n junction diode, Quantitative theory of p-n junction diode current The V-I Characteristics, The temperature dependence of p-n characteristic, Diode resistance 2. Magnetic properties of matter; The diamagnetism and Para magnetism, The origin of permanent magnetic dipole Diamagnetism and Lamoure precession, The static paramagnetic susceptibility. Superconductivity: Mechanism of superconductors, Effect of magnetic field Critical currents, The Meissner effect, The penetration Depth Type I and II superconductors	15	Last week of Sep 2025	Polarisation of magnetic lines, Atomic Theory of, coulombs law, orientation of magnetic lines, flux its Alignments are discussed. Penetrations of magnetic lines under the action of magnetic field are discussed.


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DSDD Arts College and Commerce & Science College Wada, Dist.: Palghar
Teaching Plan 2025-2026 Semester V Department of Physics
Class: T.Y.B.Sc Subject: ELECTRODYNAMICS Course: USPH504
Duration of Semester: Jun 2025 to Nov 2025
Teaching Duration: Jun 2025 to Oct 2025

Sr.no.	Topics	Number of hours planned	Lectures per week 4	Inputs and Learning outcomes
1	Unit 1: Electrostatics: Introduction, revision from coulombs law, fundamentals, revision of formulae, general idea about syllabus and topics in syllabus	2	Second week Jun2025 to July 2025	Fundamentals from coulombs law, concept of Flux, Revision of Divergence, curl.
2	Field lines, Flux and Gauss law, The divergence of E	2		Properties of lines of force and tubes of force
	Application of gauss law	2		
	Curl of E, Introduction to potential, comments on potential	3		
	Poisson's equation and Laplace Equation	2		
	The potential of a localized charge distribution, Review of conductors	2		
	First Uniqueness theorem, the classic image problem-infinite conducting plane	2		
	Unit II: Polarisation and Magneto statics	15	Second of July2025 to Aug 2025	Fundamentals of magnetic materials, Bohr's theory, its postulates
	Dielectrics, induced Dipoles, Alignment of polar molecules, polarisation	3		
	Bound charges, and their physical interpretation	2		
	Gauss law in presence of Dielectrics, A Deceptive parallel, susceptibility, permittivity, Dielectric constant, Energy in Dielectric systems	4		
	Straight line currents of B and curl of Application of Ampere law in case of long straight wire and long solenoid,	3		
	Comparison of Magneto statics and electrostatics	3		
3	Unit III: Magnetism and Varying Field	15	Third week of Aug 2025 to first week of Sep 2025	Distinguish between Para magnetism, Magnetic susceptibility, charge distribution,
	1. Diamagnets Para magnets, Ferro-magnets, Magnetisation	2		
	Bound currents and their physical interpretation	2		
	Ampere's law in magnetised materials, A deceptive parallel, magnetic susceptibility and	3		

	permeability			electrodynamics before Maxwell.
	2. Energy in Magnetic fields, Electrodynamics Before Maxwell, Maxwell correction to Amperes law,	3		
	Maxwell's Equations, Magnetic charge, Maxwell's Equation in matter, Boundary conditions	5		
4	Unit IV :Electromagnetic waves	15	Second week of sept 2025 to first week of Oct 2025	Types of waves, momentum of waves, concept of transmission
	1. The continuity equation,	2		
	Poynting theorem Newton's third law in Electrodynamics.	3		
	2. The wave equation for E and B	2		
	Monochromatic plane waves, Energy and momentum in electromagnetic waves	3		
	Propagation in linear media	2		
	Reflection and transmission of EM waves At normal incidence	3		


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DSDD Arts College and Commerce & Science College, Wada, Dist. Palghar

Teaching Plan Year (2025–2026) Semester: V

Department: Physics **Duration of Teaching:** June 2025 to December 2026

Class: T.Y.B.Sc. **Subject:** Physics Practical's

Course: USPHP05-06

Name of Faculty : Kailas P. Joshi

Sr. No.	GROUPS	Topics	Lectures per Week	Duration
1.	A/B	Determination of 'g' by Kater's pendulum	Lectures per Week 8	2 Hours for each Practical
2.		Elastic constants of a rubber tube		
3.		Logarithmic decrement		
4.		Velocity of sound in air using CRO		
5.		L/C by Maxwell's bridge		
6.		LM 317 as constant current source		
7.		Counters Mod 2, 5, 10 (2 x 5, 5 x 2)		
1.	Skill Experiments	Estimation of errors from actual experimental data	Lectures per Week 8	2 Hours for each Practical
2.		Optical Leveling of Spectrometer		
3.		Schuster's method		
4.		Laser beam profile		
5.		Optical Leveling of Spectrometer		
6.		Use of DMM to test diode, transistor		
7.		Estimation of errors from actual experimental data		


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Teaching Plan Year (2025–2026) Semester: VI Department: Physics

Duration of Teaching: Dec 2025 to April 2026 Class: T.Y.B.Sc

Name of Faculty : Kailas P.Joshi Subject: Physics Practicals Course: USPHP07-08

Sr. No.	GROUPS	Topics	Lectures per Week	Duration
1.	A/B	Study of JFET characteristics	Lectures per Week 8	2 Hours for each Practical
2.		JFET as a common source amplifier		
3.		JFET as switch (series and shunt)		
4.		Self-inductance by Anderson's bridge		
5.		Application of Op-Amp as a window comparator		
6.		Application of Op-Amp as a Log amplifier		
7.		Shift register		
1.	Skill Experiments	Open CRO, Power Supply, and Signal Generator: block diagrams	Lectures per Week 8	2 Hours for each Practical
2.		Data sheets: Diodes, Transistor, Op-amp & Optoelectronic devices		
3.		Digital storage oscilloscope (DSO)		
4.		Determination of Op-Amp parameters (offset voltage, slew rate,		
5.		Transformer (theory, construction and working), types of transformers and energy losses associated with them.		


HEAD
DEPARTMENT OF PHYSICS




PRINCIPAL
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