Bharati Vidyapeeth's

Dr. Patangrao Kadam Mahavidyalaya, Sangli Department of Physics

B.Sc. (Physics)

Program Outcomes:

- 1. Apply the basic principles of Physics to the events occurring around us and also in the world.
- 2. Design and carry out experiments to understand the laws and basic concepts in science.
- 3. To acquire a wide range of problem-solving skills, both analytical as well as technical and to apply them.
- 4. To enhance the student's academic abilities, personal qualities, and transferable skills will allow them to develop as responsible citizens.
- 5. Develop a sense of research to predict cause-and-effect relationships.
- 6. Involve in independent and lifelong learning.

Program Specific Outcomes:

- 1. To understand the basic laws and explore the fundamental concepts of Physics.
- 2. Gain a wide spectrum of skills that will enable them to solve theoretical and experimental problems.
- 3. Acquire the skill to gauge the physical properties of materials.
- 4. Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics.
- 5. Apply and verify theoretical concepts through laboratory experiments.
- 6. Illustrate the principles of electricity, magnetism, thermodynamics, optics and spectroscopy

Shivaji University, Kolhapur

COURSE OUTCOME			
SEMESTER-I			
Course Code	Part	Course Outcome	
DSC A1	Mechanics-I	 Students are able to understand and identify scalar and vector physical quantities apply vector algebraic methods to elementary exercises in mechanics Students are able to solve second order, homogenous ordinary differential equations in mechanics Students are able to understand the conceptual evolution of conservation laws of momentum and energy for both single and system of particles In general, students are capable of correlating above concepts and methods in mechanics to both theoretical and experimental domains revealing analytical as well as numerical skills 	
DSC A2	Mechanics-II	 Students are able to understand and apply Newton's Law of Gravitation to celestial objects and geometry of planetary orbits under the action of central force. Students are able to solve numerical problems based on Kepler's Laws of planetary motion and understand simple concepts like weightlessness, Geosynchronous satellite and GPS Students are able to setup differential equation for simple harmonic motion and its allied cases 	

B.Sc. Part-I Physics Syllabus (NEP-2020) with effect from August, 2022

		Studente are able to derive electic constants for
		Students are able to derive elastic constants for
		beam supported at both ends and at one end and
		also able to explain the phenomenon of surface
		tension on the basis of molecular forces
		SEMESTER II
		1. Students are able to understand the physical
		significance of gradient, divergence and curl
		2. Students are able to apply concepts in vector calculus
		such as gradient, divergence and curl related to vector
		and scalar fields using Gauss, Stokes and green`s
	Electricity	theorem
DSC B1	and	3. Students are able to understand and apply concepts of
	Magnetism-I	electrostatic field, potential to point charges, electric
		dipole and geometrically regular charged bodies
		4. Students are able to understand and apply concept of
		capacitor to isolated conductor, parallel plates,
		cylindrical and spherical capacitors and allied
		modifications in it, energy density in electric field and
		solve numerical exercise in electrostatics
		1. Students are able to understand importance of
		complex numbers in analysis of AC Circuits contacting
		Inductance(L) Capacitor(C) and Resistance (R) and
	Electricity	their various configurations
DSC B2	and	2. Students are able to define and apply the concepts in
	Magnetism-II	AC circuits such as Impedance (Z), reactance (XC and
		XL), Admittance, Susceptance and Quality Factor (Q)
		3. Students are able to understand and design AC
		bridge: Owen`s Bridge and understand basic working
		principle of Ballistic galvanometer
		Principie of Damotic Burranometer

DSC AI. Students reveal mastery in vasic terminology in network analysis for further studies and apply Network theorems to simple circuitsDSC A1. Students are able to derive elastic constant (eta) of a wire under torsional oscillations (Searle's Method) 3. Students are able to derive elastic constant (eta) of a wire under torsional oscillations (Searle's Method) 3. Students are able to derive the relation between surface tension on the basis of molecular forces 4. Students are able to derive the relation between surface tension and excess pressure 5. Students are able to perform an experiment to determine ST by Jaeger's method 6. Students are able to discuss and state the factors affecting the ST 7. In general, students are capable of correlating above concepts and methods to both theoretical and experimental domains revealing analytical as well as numerical skillsDSC BLAB ELECTRICITY AND1. In general, students are capable of applying above concepts such as magnetization and intensity of magnetizationDSC BLAB ELECTRICITY AND3. Students are able to understand simple elementary concepts such as magnetization and intensity of magnetizationDSC BLAB ELECTRICITY AND3. Students are able to state Biot-Savart's law and are capable to apply it to straight, circular wires and solenoid			4. Students reveal mastery in basic terminology in
DSC ANetwork theorems to simple circuitsLAB: MECHANICS1. Students are able to derive elastic constants for beam supported at both ends and at one end 2. Students are able to derive elastic constant (eta) of a wire under torsional oscillations (Searle's Method) 3. Students are able to explain the phenomenon of surface tension on the basis of molecular forces 4. Students are able to derive the relation between surface tension and excess pressure 5. Students are able to perform an experiment to determine ST by Jaeger's method 6. Students are able to discuss and state the factors affecting the ST 7. In general, students are capable of correlating above concepts and methods to both theoretical and experimental domains revealing analytical as well as numerical skillsDSC BLAB ELECTRICITY AND MAGNETISM1. In general, students are capable of applying above concepts un network analysis to both theoretical and experimental domains concepts such as magnetization and intensity of magnetizationDSC BLAB ELECTRICITY AND MAGNETISM2. Students are able to state Biot-Savart's law and are capable to apply it to straight, circular wires and solenoid			
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BarbonFactors affecting the ST7. In general, students are capable of correlating above concepts and methods to both theoretical and experimental domains revealing analytical as well as numerical skills8. ND1. In general, students are capable of applying above concepts in network analysis to both theoretical and experimental domains9. DSC BLAB ELECTRICITY AND2. Students are able to understand simple elementary concepts such as magnetization and intensity of magnetization9. MAGNETISM3. Students are able to state Biot-Savart's law and are capable to apply it to straight, circular wires and solenoid			determine ST by Jaeger`s method
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capable to apply it to straight, circular wires and solenoid		AND	magnetization
solenoid		MAGNETISM	3. Students are able to state Biot-Savart's law and are
			capable to apply it to straight, circular wires and
4. Students are able to understand concept of magnetic			solenoid
			4. Students are able to understand concept of magnetic

		vector potential along with Ampere`s circuital law
		5. Students are able to understand the explain the
		phenomenon of hysteresis in magnetism
		6. Students are able to discriminate different magnetic
		materials based on their characteristic properties
	<u> </u>	B.ScII
		SEMESTER III
	(Thermal	1. Know the Zeroth Law, First Law, Second Law and
	Physics and	Third Law of Thermodynamics.
	Statistical	2. Describe various types of Thermometers.
DSC-C1	Mechanics - I	3. State the nature of heat transfer, transport
		phenomena in gases behavior of gases ate different
		temperatures.
		4. Apply the thermodynamics laws for practical use
	Waves and	1. Assess fluctuations and acoustic process in nature
	Optics -I	and technology in various forms.
		2. Analyse the mechanism and the machinery noise
		levels.
DSC-C2		3. Distinguish between different sounds and noise levels
		in the environment.
		4. Solve the numerical on sound and acoustics, viscosity
		and low pressure
SEMESTER IV		
	Thermal	1. Describe various thermodynamic potentials.
	Physics and	2. Know different theories of radiation.
DSC-D1	Statistical	3. Know the Classical Statistics and Quantum Statistics.
	Mechanics - I	4. Solve the numerical problems using mathematical
		tools
	1	

Optics - I DSC- D2 B.Sc. Pa PHYSICS Experim (DSC C1 and IV D1, D2 P V, VI, V	Optics -Iand polarization.C- D2Interpret wavelength, resolving power and specific rotation.IInterpret wavelength of unknown sources.ICalculate wavelength of unknown sources.IUnderstand various applications of the light wavesITo study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2.PHYSICS LAB3.PHYSICS LAB3.To study the temperature coefficient of resistance by various methods.ITo understand the mechanical equivalent of heat	Optics -Iand polarization.2. Interpret wavelength, resolving power and specific	waves and 1. Explain the phenomenon of interference, diffaction	Manager and Hereight the phonomenon of interterance differences	Waves and 1. Explain the phenomenon of interference, diffraction		Wayos and	1 Explain the phonomonon of interference diffraction
DSC- D2 B.Sc. Pa B.Sc. Pa PHYSICS Experim (DSC C1 and IV D1, D2 P V, VI, V	C- D2 C- D	2. Interpret wavelength, resolving power and specific			waves and 1. Explain the phenomenon of interference, dimaction			
B.Sc. Pa PHYSICS Experim Group I, II, III and IV D1, D2 P V, VI, V	 C- D2 rotation. Calculate wavelength of unknown sources. Understand various applications of the light waves To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II To study the working of various thermometers. PHYSICS LAB To study the temperature coefficient of resistance by various methods. To understand the mechanical equivalent of heat through an experiment. V, VI, VII, To study the motion of coupled oscillation, coefficient 	2. Interpret wavelength, resolving power and specific	Uptics - I and polarization.				Optics -I	*
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and IV D1, D2 P V, VI, V	d IV D1, D2 Paper through an experiment. V, VI, VII, 5. To study the motion of coupled oscillation, coefficient	3. Calculate wavelength of unknown sources.4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.	DSC- D22. Interpret wavelength, resolving power and specific rotation.3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.	DSC- D22. Interpret wavelength, resolving power and specific rotation.3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 1. To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II 2. To study the working of various thermometers.		Experiments	various methods.
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		3. Calculate wavelength of unknown sources.4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.PHYSICS LAB3. To study the temperature coefficient of resistance by various methods.Group I, II, III and IV(DSC C1, C2, 4. To understand the mechanical equivalent of heat	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 4. Understand various properties of thermal physics like thermal conductivity. 4. To study the working of various thermometers. 4. PHYSICS LAB 4. To study the temperature coefficient of resistance by Experiments 4. To understand the mechanical equivalent of heat 4. To understand the mechanical equivalent	DSC- D22.Interpret wavelength, resolving power and specific rotation.3.Calculate wavelength of unknown sources.4.Understand various applications of the light waves5.1.To study the various properties of thermal physics like thermal conductivity.6.B.Sc. Part II2.To study the working of various thermometers.7.PHYSICS LAB3.To study the temperature coefficient of resistance by various methods.6.(DSC C1, C2,4.To understand the mechanical equivalent of heat	DSC- D22.Interpret wavelength, resolving power and specific rotation.3.Calculate wavelength of unknown sources. 4.4.4.Understand various applications of the light waves1.To study the various properties of thermal physics like thermal conductivity.8.Sc. Part II PHYSICS LAB Experiments2.9.HYSICS LAB Experiments3.1.To study the temperature coefficient of resistance by various methods.9.HYSICS LAB COLL, C2,4.9.HYSICS LAB COLL, C2,4			
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V, VI, V	D1, D2 Paperthrough an experiment.V, VI, VII,5. To study the motion of coupled oscillation, coefficient	3. Calculate wavelength of unknown sources.4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.PHYSICS LAB3. To study the temperature coefficient of resistance by various methods.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 1. To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II 2. To study the working of various thermometers. PHYSICS LAB 3. To study the temperature coefficient of resistance by various methods.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 1. To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II 2. To study the working of various thermometers. PHYSICS LAB 3. To study the temperature coefficient of resistance by various methods.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 1. To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II 2. To study the working of various thermometers. PHYSICS LAB 3. To study the temperature coefficient of resistance by various methods.	_	(DSC C1, C2,	4. To understand the mechanical equivalent of heat
and IV D1, D2 P V, VI, V	d IV D1, D2 Paper through an experiment. V, VI, VII, 5. To study the motion of coupled oscillation, coefficient	3. Calculate wavelength of unknown sources.4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II2. To study the working of various thermometers.PHYSICS LAB3. To study the temperature coefficient of resistance by	DSC- D22. Interpret wavelength, resolving power and specific rotation.3. Calculate wavelength of unknown sources.4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II PHYSICS LAB2. To study the working of various thermometers.3. To study the temperature coefficient of resistance by	DSC- D22. Interpret wavelength, resolving power and specific rotation.3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves1. To study the various properties of thermal physics like thermal conductivity.B.Sc. Part II PHYSICS LAB2. To study the working of various thermometers.3. To study the temperature coefficient of resistance by	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources. 4. Understand various applications of the light waves 1. To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II 2. To study the working of various thermometers. PHYSICS LAB 3. To study the temperature coefficient of resistance by	Group I. II. III	•	
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Group I, II, III and IV V, VI, V	B.Sc. Part II 2. To study the working of various thermometers. PHYSICS LAB 3. To study the temperature coefficient of resistance by Experiments various methods. (DSC C1, C2, 4. To understand the mechanical equivalent of heat through an experiment. V, VI, VII, 5. To study the motion of coupled oscillation, coefficient	3. Calculate wavelength of unknown sources.	DSC- D22. Interpret wavelength, resolving power and specific rotation.3. Calculate wavelength of unknown sources.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation. 3. Calculate wavelength of unknown sources.			1. To study the various properties of thermal physics
Group I, II, III and IV V, VI, V	Image: Construct of the second seco		DSC- D2 2. Interpret wavelength, resolving power and specific rotation.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation.	DSC- D2 2. Interpret wavelength, resolving power and specific rotation.			
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DSC- D2 B.Sc. Pa PHYSICS Experim Group I, II, III and IV D1, D2 P V, VI, V	C- D2 C-	2. Interpret wavelength, resolving power and specific	Ontice I and polarization		waves and 1. Explain the phenomenon of interference, annaction			
B.Sc. Pa PHYSICS Experim Group I, II, III and IV D1, D2 P V, VI, V	 C- D2 rotation. Calculate wavelength of unknown sources. Understand various applications of the light waves To study the various properties of thermal physics like thermal conductivity. B.Sc. Part II To study the working of various thermometers. PHYSICS LAB To study the temperature coefficient of resistance by various methods. To understand the mechanical equivalent of heat through an experiment. V, VI, VII, To study the motion of coupled oscillation, coefficient 				Ontice I and polarization		optics -i	*
DSC- D2 B.Sc. Pa PHYSICS Experim Group I, II, III and IV D1, D2 P V, VI, V	C- D2 C- D	2. Interpret wavelength, resolving power and specific	Ontice I and polarization		waves and 1. Explain the phenomenon of interference, annaetton			

		4. Understand maths of complex numbers and
		application of Cauchy-Riemann Equations.
		1. Describe de Broglie's hypothesis of matter waves,
		Davisson–Germer experiment.
		2. Apply the knowledge of basic quantum mechanics, to
	Quantum	set up one-dimensional Schrodinger's wave equation
DSE-E2	Mechanics	and its application to a matter wave system.
	incentanies	3. Understand the Schroedinger wave mechanics and
		operator formalism.
		4. Solve the Schroedinger equation for simple 1D time-
		independent potentials
		1. Apply Lagrangian methods to solve for the motion of
		rigid bodies.
	Classical	2. Apply the calculus of variations to solve minimization
	Mechanics	problems and knowledge of the formulation of
DSE-E3	and Classical	dynamics in terms of a variational principle.
D3E-E3	Electrodyna	3. Explain the fundamental concepts of special relativity
	mics	and how to perform Lorentz transformations.
		4. Solve the problems based on the motion of a charged
		particle in the presence of a uniform electromagnetic
		field.
		1. Analyse different types of digital electronic circuits
		using various tools and know the techniques to
	Digital and	prepare the most simplified circuit using various
	Analog	methods.
DSE-E4	Circuits and	2. Explain the principles of oscillation and design
	Instrumentat	various oscillator circuits.
	ion	3. Acquire the skill in using CRO for various physical
		measurements.
		4. Demonstrate knowledge of analog electrical devices,

applications. 1. Impart knowledge about basic nuclear phy properties and nuclear models for the understand of related reaction dynamics. 2. Explain how energy and other properties accelerated particle beams are measured.	
properties and nuclear models for the understand of related reaction dynamics. 2. Explain how energy and other properties	
DSE-F1Particle Physics3. Describe the properties of radiation used detection and the parameters that affect precision, efficiency, and sensitivity of measurement.4. Explain the interaction between elementary parti and their classification.	standing rties of sed for ect the of the
DSE-F2Solid State1. Explain the Crystal systems, Crystal planes directions, and Miller indices. 2. Describe Bragg's Law and its relation to cry structure.DSE-F2Physics3. Illustrate the Characteristic features of various ty of magnetic materials. 4. Demonstrate an in-depth understanding of the b structure of solids.	crystal us types
DSE-F31. Explain the change in behaviour of atoms in externally applied electric and magnetic field.DSE-F3Atomic and Molecular2. Understand the molecular spectra and find molecular properties from molecular spectra.DSE-F3Physics and 	olecular Raman nall and
DSE-F4 Energy 1. Analyse the viability of wind and alternative energy	e energy

	Studies and	projects.
	Materials	2. Explain the field applications of solar energy.
	Science	3. Describe the biogas generation and its impact on the
		environment.
		4. Explain the phenomenon of superconductors and its
		various applications.
	Physics	1. To study the various kind of motion through an
	Laboratory	experiment
	Experiments	2. To study the elasticity, surface tension, oscillation
		through an experiment
		3. To study the interaction of light with material
		medium and its properties
B.Sc. Part III		4. To empower the student to understand the different
		aspect of electricity and magnetism.
		5. To understand the basic electronics and its
		application in daily use.
		6. To test the skill of various aspect of experimental
		physics.