

B.L.D.E.ASSOCIATION'S
S.B.ARTS AND K.C.P.SCIENCE COLLEGE,
VIJAYAPUR.

DEPARTMENT OF PHYSICS

REPORT ON

Programme outcome, programme Specific Outcome and
Course outcome
Mapping and Evaluation.


IQAC, Co-ordinator
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EVALUATION MAPPING

Allotment of Marks in Each Question Paper:-

- ❖ 2 Marks – Short answer type.
- ❖ 5 Marks - Explanation Type, Problem analysis.
- ❖ 10 Marks – Theory description & Expression derivation /Experiments type.

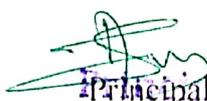
Framing Questions:-

- ❖ Skill Based.
- ❖ Understanding.
- ❖ Descriptive.
- ❖ Analytical.
- ❖ Evaluated.

Sl.No	Parameters	Percentage
1	Skill Based	15 %
2	Understanding	15 %
3	Descriptive	30 %
4	Analytical	20 %
5	Evaluated	20 %
		100 %


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B.Sc –I Sem : Physics (Mechanics and properties of Matter)

PROGRAM OUTCOME

- PO1: Understanding of fundamental concepts, theorems, problem solving and concept of measures to all subjects.
- PO2: Acquiring knowledge on experiments, critical thinking, problem solving, analyzing data and relevant methodologies.
- PO3: Opportunities in higher education, competitive exams and scientific job opportunities.

PROGRAM SPECIFIC OUTCOME'S

- PSO1: Acquiring the fundamental Knowledge: definition, concept, methods, conversion of units and measurements and proper understanding of physics
- PSO2: Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results
- PSO3: Developments of lab skills: knowledge of components, Equipments, connections and use of instruments, Analysis of theoretical concepts
- PSO4: Building scientific temper: Correlation of various concepts and phenomenon of physics
- PSO5: Innovative methods: acquisition of knowledge through projects works
- PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space
- PSO7: Inculcate ethical values: Students will realize and develop and understanding of impact of physics on society
- PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest

COURSE OUTCOME

- CO1: Able understand type of motion and to solve oscillating system problems
- Co2: Learn the use of graph to fit the curves
- CO3: various experimental methods on Gravitational force
- CO4: understanding f laws of planetary motion
- CO5: implementation of linear momentum through single stage Rocket
- CO6: Study the kinematics rigid body
- CO7: Experimental determination and analysis of dynamics of rigid body
- CO8: Determination of Elastic constants

CO9: able to relate surface tension and capillarity

Co10: Application of Stoke'slaw for the measurement of Viscosity of fluids

CO11: Solving Numerical Problems

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	-	2	3	3	3	3	1	3	3	3
Co2	3	3	3	3	3	3	2	3	3	-	3
Co3	1	3	3	3	2	2	3	1	3	3	3
CO4	-	3	3	2	3	3	3	2	3	3	3
CO5	-	3	3	2	3	3	3	2	3	3	3
CO6	3	3	3	3	3	3	3	2	3	3	3
CO7	3	3	3	3	3	3	2	3	3	1	3
CO8	3	3	3	2	3	3	3	3	3	3	3
CO9	3	3	3	2	3	3	2	3	3	2	3
CO10	3	3	3	3	3	2	3	3	3	3	3
CO11	3	3	3	3	3	3	3	3	3	-	3


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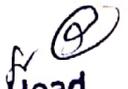

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B SC-II Sem Physics (Sound and thermal physics)

- CO1: students will able to identify the difference between various types of vibrations.
- CO2: Analysis of energy conversion using transducer; run an experiment on loud speaker and microphone.
- CO3: To explain gas pressure and thermal expansion in terms of kinetic theory of gases.
- CO: Students will able to analyse random walk by knowing Brownian motion.
- CO5: To quantify entropy changes using a statistical approach and heat changes.
- CO6: Laws of thermodynamics; all the motive power is derived from heat using some form of heat engine.
- CO6: To understand the production and measurement of low pressure.
- CO7: To study the production of low temperature by porous plug experiment.
- CO8: study of Stefan's law and determination of Stefan's constant.
- CO9: Solving numerical problems.

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	1	-	3	1	-	3	3	2	3	2
Co2	3	3	3	3	3	3	2	3			-
Co3	1	3	3	3	2	2	3	1	3	3	3
CO4	-	3	3	2	3	3	3	2	3	3	3
CO5	-	3	3	2	3	3	3	2	3	3	3
CO6	3	3	3	3	3	3	3	2	3	3	3
CO7	3	3	3	3	3	3	2	3	3	2	3
CO8	3	3	3	3	2	3	2	3	2	2	3
CO9	2	2	3	3	3	3	2	3	2	2	2


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- PSO5: Innovative methods: acquisition of knowledge through projects works
- PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space
- PSO7: Inculcate ethical values: Students will realize and develop an understanding of impact of physics on society
- PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest

COURSE OUTCOME'S

- CO1: students will able to identify the difference between various types of vibrations.
- CO2: Analysis of energy conversion using transducer; run an experiment on loud speaker and microphone.
- CO3: To explain gas pressure and thermal expansion in terms of kinetic theory of gases.
- CO4: Students will able to analyse random walk by knowing Brownian motion.
- CO5: To quantify entropy changes using a statistical approach and heat changes.
- CO6: Laws of thermodynamics; all the motive power is derived from heat using some form of heat engine.
- CO7: To understand the production and measurement of low pressure.
- CO8: To study the production of low temperature by various experiments.

CO9: study of Stefan's law and determination of Stefan's constant.

CO10: Solving numerical problems.

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Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	1	-	3	1	-	3	3	2	3	2
Co2	3	3	3	3	3	3	3	2	3	3	3
Co3	3	3	1	3	1	3	3	2	3	2	3
CO4	3	3	3	3	1	1	3	3	3	3	1
CO5	3	3	2	3	3	3	3	1	3	3	2
CO6	3	3	2	3	3	3	3	3	3	3	3
CO7	3	3	3	3	3	1	3	3	3	3	3
CO8	3	3	3	3	3	3	3	2	3	3	3
CO9	3	3	3	3	1	2	1	1	3	-	3


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B SC-III Sem Physics (Geometrical optics and Electricity)

PROGRAM OUTCOME'S

- PO1: Understanding of fundamental concepts, theorems, problem solving and concept of measures to all subjects.
- PO2: Acquiring knowledge on experiments, critical thinking, problem solving, analyzing data and relevant methodologies.
- PO3: Opportunities in higher education, competitive exams and scientific job opportunities.

PROGRAM SPECIFIC OUTCOME'S

- PSO1: Acquiring the fundamental Knowledge: definition, concept, methods, conversion of units and measurements and proper understanding of physics
- PSO2: Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results
- PSO3: Developments of lab skills: knowledge of components, Equipments, connections and use of instruments, Analysis of theoretical concepts
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- PSO5: Innovative methods: acquisition of knowledge through projects works
- PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space
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- PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest.

COURSE OUTCOME

- CO1: Students will be able to apply the fundamental laws of geometrical optics .
- CO2: Ability to learn graphical constructions and image formation .
- CO3: Acquiring knowledge of aberrations of optical systems and their cause and remedies.
- CO4: Students will get the Knowledge of different types of eye pieces and their use .
- CO5: To get the Knowledge of different types of galvanometer and their use.
- CO6: Use of electronic instruments.
- CO7: Use of electronic components and their effect.
- CO8: Knowledge of fundamental laws of Electromagnetism.

CO9: Solutions of numerical problems.

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	3	3	3	3	3	2	3	3	2
Co2	3	3	2	1	3	3	2	3	3	3	-
Co3	3	3	2	3	2	3	3	2	3	3	1
CO4	3	3	2	3	2	3	3	2	3	1	2
CO5	3	3	1	3	2	3	1	1	3	-	1
CO6	3	3	3	3	3	3	3	3	3	1	2
CO7	3	3	2	3	3	3	3	2	3	-	2
CO8	3	3	3	3	3	3	3	3	3	2	3
CO9	3	3	3	3	3	3	-	-	3	1	2


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B SC-IV Sem Physics (Physical optics and Electricity-II)

PROGRAM OUTCOME'S

PO1: Understanding of fundamental concepts, theorems, problem solving and concept of measures to all subjects.

PO2: Acquiring knowledge on experiments, critical thinking, problem solving, analyzing data and relevant methodologies.

PO3: Opportunities in higher education, competitive exams and scientific job opportunities.

PROGRAM SPECIFIC OUTCOME'S

PSO1: Acquiring the fundamental Knowledge: definition, concept, methods, conversion of units and measurements and proper understanding of physics

PSO2: Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results

PSO3: Developments of lab skills: knowledge of components, Equipments, connections and use of instruments, Analysis of theoretical concepts

PSO4: Building scientific temper: Correlation of various concepts and phenomenon of physics

PSO5: Innovative methods: acquisition of knowledge through projects works

PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space

PSO7: Inculcate ethical values: Students will realize and develop and understanding of impact of physics on society

PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest

COURSE OUTCOME'S

CO1: Understand the physical principles behind wave optics.

CO2: Students will get the knowledge of interferometer's and their applications .

CO3: Describe and discuss optical interference using wavefront splitting and amplitude splitting .

CO4: Describe and discuss various types of polarisation & methods used to generate and analyse polarised light using wave plates.

CO5: Knowledge of diffraction effects observed in a single slit and multiple slits and relate to Rayleigh criterion and optical resolution.

CO6: To derive and manipulate formula & to solve optics related problems.

CO7: Able to solve Electromagnetic problems with the knowledge of maxwell's equation.

CO8: Have an understanding of laws of thermoelectric effect.

CO9: To record , analyse & present experimental findings in physical optics.

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	3	3	3	3	3	2	3	2	2
Co2	3	3	3	3	3	3	3	3	3	1	1
Co3	3	3	3	3	2	3	3	2	3	1	1
CO4	3	3	3	3	3	3	3	2	3	1	2
CO5	3	3	3	3	3	3	3	2	3	1	2
CO6	3	3	3	3	2	3	3	-	3	1	1
CO7	3	3	3	3	3	3	3	3	3	1	3
CO8	3	3	2	3	3	3	3	2	3	1	2
CO9	3	3	3	3	3	3	3	3	3	2	3


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B SC-V Physics (paper 1)

PROGRAM OUTCOME'S

- PO1: Understanding of fundamental concepts, theorems, problem solving and concept of measures to all subjects.
- PO2: Acquiring knowledge on experiments, critical thinking, problem solving, analyzing data and relevant methodologies.
- PO3: Opportunities in higher education, competitive exams and scientific job opportunities.

PROGRAM SPECIFIC OUTCOME'S

- PSO1: Acquiring the fundamental Knowledge: definition, concept, methods, conversion of units and measurements and proper understanding of physics
- PSO2: Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results
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- PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space
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COURSE OUTCOME'S

- CO1: Understanding types of constraints.
- CO2: Application of Lagrange's equation to various problems.
- CO3: Understanding central force & kepler's laws of planetary motion.
- CO4: Able to understand characterization & applications of nano materials.
- CO5: Able to understand basic concepts like the equivalence principles & time dilation.
- CO6: Application of Lorentz transformation to standard problems.
- CO7: Acquire basic knowledge on the working of various semiconductor devices.
- CO8: Design an experiment with various voltage regulation.

CO9: Develop analysis capability in BJT & FET amplifier circuit.

CO10: Design of various oscillator's and its applications.

MAPPING of Cos with Pos and PSoS

Cos\POs and PSoS	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	2	3	1	-	3	1	3	3	1
CO2	3	3	3	3	2	2	2	3	3	1	1
CO3	3	3	3	3	3	2	3	2	3	2	1
CO4	3	3	3	3	3	2	3	3	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3	3
CO6	3	3	3	3	3	3	3	2	3	1	1
CO7	3	3	3	3	3	3	3	3	3	3	3
CO8	3	3	3	3	3	3	3	3	3	3	3
CO9	3	3	3	3	3	3	3	3	3	2	2
CO10	3	3	3	3	3	3	3	3	3	3	3


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B SC-V Physics (paper 2)

PROGRAM OUTCOME'S

PO1: Understanding of fundamental concepts, theorems, problem solving and concept of measures to all subjects.

PO2: Acquiring knowledge on experiments, critical thinking, problem solving, analyzing data and relevant methodologies.

PO3: Opportunities in higher education, competitive exams and scientific job opportunities.

PROGRAM SPECIFIC OUTCOME'S

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PSO6: Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space

PSO7: Inculcate ethical values: Students will realize and develop and understanding of impact of physics on society

PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest

COURSE OUTCOME'S

CO1: Students will understand the details of matter waves.

CO2: Able to understand different lasers and comparison between them.

CO3: Able to solve Schrodinger's equations for simple configurations.

CO4: Understand the interpretation of wave function and nature of location of a particle.

CO5: Able to describe the atomic spectra of one and two valence electron atoms.

CO6: Explain change in behaviour of atoms in external applied electric and magnetic field.

CO7: Able to explain rotational, vibrational, electronic and Raman spectra of molecules.

CO8: Study how scattering is affected by particles in air.

CO9: Develop the ability to describe special function and their recurrence relation.

CO10: Study the applications of special function in various physical problems.

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	3	3	3	-	2	1	3	1	-
CO2	3	3	3	3	3	3	3	3	3	3	3
Co3	3	3	3	3	3	1	3	1	2	-	-
CO4	3	3	3	3	3	2	3	1	3	-	3
CO5	3	3	3	3	2	2	3	3	3	1	3
CO6	3	3	3	3	1	3	3	1	3	-	3
CO7	3	3	3	3	3	3	3	2	3	3	3
CO8	3	3	3	3	1	1	3	3	3	3	3
CO9	3	3	3	3	-	-	3	1	3	1	3
CO10	3	3	3	3	1	3	3	1	3	1	3


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B SC-VI Physics (paper 1)

PROGRAM OUTCOME'S

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COURSE OUTCOME'S

- CO1: Able to apply techniques of X-ray diffraction to study the crystals.
- CO2: Able to understand lattice heat capacity and, to compare classical theory, Einstein's theory and Debye's theory of specific heat of solids.
- CO3: Able to understand the basic properties of semiconductors and their technological applications.
- CO4: applications of superconductivity to superconducting wires and maglev trains.
- CO5: Able to apply the formula for determining half-life of radioactive decaying elements.
- CO6: Able to get through the knowledge of counting systems used in the nuclear instrumentation.
- CO7: Able to understand the need of energy conversion and various methods of energy storage.

CO8: Able to explain the applications of solar energy.

CO9: Understanding of the fundamental concepts and techniques used in the digital electronics.

CO10: Applications of liquid crystals to LCD and other fields.

MAPPING of Cos with Pos and PSoS

Cos/POs and PSoS	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	2	3	2	3
CO3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	3	2
CO7	3	3	3	3	3	3	3	3	3	3	3
CO8	3	3	3	3	3	3	3	3	3	3	3
CO9	3	3	3	3	3	3	3	3	3	3	3
CO10	3	3	3	3	3	3	3	3	3	3	3


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B SC-VI Physics (paper 2)

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PSO2: Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results

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PSO8: Instills Research culture: after graduation student will address the problems of societal and industrial interest.

COURSE OUTCOME'S

CO1: Learn the Fourier analysis of periodic functions and their applications in various physical problems.

CO2: Learn to use Laplace transform method to solve differential equations.

CO3: Able to understand importance of optical fibres in communication.

CO4: Understand the conversion of light energy into electric energy and vice-versa.

CO5: Able to understand electromagnetic spectra and different frequency bands.

CO6: Learn modulation and types in it.

CO7: Develop the skill of writing the algorithm for solving problems.

CO8: By algorithm able to find out the roots of quadratic equation.

CO9: Study the applications of integral circuits.

CO10: Demonstrate the ability to design practical circuits using ICs.

MAPPING of Cos with Pos and PSos

Cos\POs and PSos	Po1	Po2	Po3	Pso1	Pso2	PSo3	PSo4	PSo5	PSo6	PSo7	PSo8
CO1	3	3	3	3	3	3	3	3	3	-	3
CO2	3	3	3	3	3	2	3	-	3	-	3
Co3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	2	2	2	2	3	3	3
CO6	3	3	3	3	3	1	3	3	3	3	3
CO7	3	3	3	3	3	3	1	-	3	-	3
CO8	3	3	3	3	3	3	1	-	3	-	3
CO9	3	3	3	3	3	3	1	2	2	1	3
CO10	3	3	3	3	3	2	-	3	3	1	3

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