



B.L.D.E. Association's

S.B.ARTS & K.C.P SCIENCE COLLEGE VIJAYAPUR

Department of PG Studies in Physics

Key Indicator-2.6	Student Performance and Learning Outcome(40)
Metric No.2.6.1:	Programme Outcomes, Programme Specific Outcomes and Course Outcomes

B. L. D. E. Association's
S. B Arts and K. C. P Science College, Vijayapur
Department of PG Studies in PHYSICS

Key Indicator-2.6 Student Performance and Learning Outcome(40)

Metric No.2.6.1: Programme Outcomes, Programme Specific Outcomes and Course Outcomes

1. Programme 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 research like JRF,SRF, Research Assistant
PO4	Opportunities in higher education, competitive exams and scientific job opportunities.

2. Programme Specific Outcome	
PSO1	Acquiring the fundamental Knowledge: definition, concept, methods, conversion of units and measurements and proper understanding of physics
PSO 2	Enhancement of skills: Designing circuits, block diagram, nature of graph, comparing theory with experimental results
PSO 3	Developments of lab skills: knowledge of components, Equipments, connections and use of instruments, Analysis of theoretical concepts
PSO 4	Building scientific temper: Correlation of various concepts and phenomenon of physics
PSO 5	Innovative methods: acquisition of knowledge through projects works
PSO 6	Discovery of physic concept to other disciplines like chemistry, computer science and Engineering, Medical Science, Life Science, space
PSO 7	Inculcate ethical values: Students will realize and develop and understanding of impact of physics on society
PSO 8	Instills Research culture: after graduation student will address the problems of societal and industrial interest
PSO 9	Enhancement of presentation and writing skills
PSO 10	Project works: Enhancement of skills in learning feasibility study, Literature survey, Designing , report writing
PSO 11	Research and development opportunities after completion of Post graduation may be Junior research fellow

M.Sc I semester: Mathematical Methods in Physics

CO1	Applications of special functions to solve problems on in physics
CO2	Applications of Matrices and Integral transforms to solve physics problems
CO3	Study the tensors quantities in physics
CO4	Use of group theory to molecular spectra
CO5	Applications of Greens function to solve Physical Problems

M.Sc I Semester: Classical Mechanics

CO1	Able to understand the mechanical finding the force, energy ,etc
CO2	Converting two body problem into single body problem
CO3	Study the motion of body in fixed and moving coordinate systems
CO4	To Study the conservation laws of physics in vector form using bracket laws
CO5	Application of Hamiltonian mechanics

M.Sc I Semester: Nuclear and Particle Physics (General)

CO1	Understanding the concept of nucleus and its properties
CO2	Gain an idea about different nuclear models and nucleus processes
CO3	Studying the nuclear reactors using chain reaction
CO4	Interactions of types of radiations and charge particular with matter
CO5	Understanding the principal and working of G.M.Counter and scintillations counter.

M.Sc I Semester: Condensed Matter Physics (General)

CO1	Basic understanding of structure of materials(Crystals)
CO2	Studying the different thermal properties of crystal
CO3	Understanding the types of materials by their electrical properties
CO4	Study the effect of electromagnetic field on semiconductors
CO5	Understudying the parameters of a solid crystals and elements.

M.Sc I Semester: Instrumentation

CO1	Principal construction and working of structural characterization techniques
CO2	Principal and working instruments optical and molecular spectroscopy
CO3	Principal and working instruments of Electrical and thermal properties
CO4	Study of counters

M.Sc II Semester: Quantum Mechanics-I

CO1	Students can understand the how to find position and momentum of a particles
CO2	To understand the applications and physical interpretation of Schrödinger wave equation
CO3	To study the properties like energy and states of a H-atom
CO4	Students can understand about the perturbation in the physical systems
CO5	To study the scattering of particles and potentials

M.Sc II Semester: Atomic, Molecular and Optical Physics (General)

CO1	To understand the structure of atoms and its properties
CO2	To understand the structure of molecules and its properties
CO3	Students can understand applications and working properties of laser light
CO4	To study the working and applications fiber optics
CO5	To understand the experiment on divergence of laser beam using grating element
CO6	Students can find the numerical aperture of optical fiber

M.Sc II Semester: Electronics (Gneral)

CO1	Students can understand principles and working of semiconductor devices
CO2	Students get ability to build oscillators using operational amplifier
CO3	To study digital circuits and code conversion
CO4	Students can understand arithmetic operation using logic gates
CO5	To understand how to converts digital to analog
CO6	To study how to reduce the logic expression using k-map

M.Sc II Semester: Material Science

CO1	To study the types of materials and its properties
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CO2	Students can understand how to grow the crystals
CO3	They can understand the phase diagrams in solids
M.Sc III Semester: Statistical Mechanics	
CO1	To Study the difference between the microscopic and macroscopic systems
CO2	To build the knowledge about interaction between heat and systems and different types of interactions
CO3	Students get ability, to distinguish the particles in different states
CO4	Students can understand black-body radiation and its applications
CO5	To get the knowledge about fluctuations.
M.Sc III Semester: Classical Electrodynamics	
CO1	How to find the force and field of a point charge
CO2	To build the knowledge about dielectric materials in electrostatics
CO3	How to find the force and field, energy of a moving charge
CO4	Students can understand the use of waveguide as an optical fiber
CO5	They can understand about plasma state and hydrodynamics
M.Sc III Semester: Condensed Matter Physics-I	
CO1	Students can understand about crystal structures and their properties
CO2	To study the Fermi- level and Fermi-energy in metals and semiconductors
CO3	To get knowledge about X-rays, Phonons and photons and its properties
CO4	Students can understand transparent in semiconductors and metals
CO5	To study how to classify the magnetic materials and their temperature dependence
CO6	To study the hall effect in metals and semiconductors
CO7	Experiment to find heat capacity of metals using calorimeter
M.Sc IV Semester: Quantum Mechanics-II	
CO1	Students are also able to study operators in vector space
CO2	To get knowledge about the dynamics of a system in operator form
CO3	To study about vector form of angular momentum
CO4	To get knowledge about how to find correction to energy and wave function of a physical system
CO5	To study about relativistic QM
M.Sc IV Semester: Advanced Mathematical Methods in Physics-II	
CO1	To study about linear algebra
CO2	How to solve differentiation and integration and equations using numerical methods
CO3	How to apply partial differential equations to physics
CO4	To solve numerical problems of physical systems
CO5	To get physical systems knowledge about probability theory.
M.Sc IV Semester: Condensed Matter Physics -II	
CO1	To study the dielectric materials and its properties
CO2	Study properties the phase transformation in ferroelectric materials
CO3	Basics about semiconductor materials
CO4	To study how electrons transport in semiconductors
CO5	To understand basic principle of magnetic resonance
CO6	To study magneto resistance of a semiconductor
CO7	To study working of solar cells
M.Sc IV Semester: Condensed Matter Physics -III	
CO1	To understand working of semiconductor devices
CO2	To study the how dimensional semiconductors
CO3	Understand the properties of superconductors
CO4	Students can understand about the different effects on superconductors
CO5	They get knowledge about synthesis and characterization of nonmaterial's

D. Prasad

Co-ordinator

Department of PG Studies in Physics
S.B. Arts and KCP Science College
VIJAYAPUR

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Principal,

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Bijapur

Mapping of Course Outcome with Programme Outcomes and Programme Specific Outcome

M.Sc I sem (Mathematical Methods in Physics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	2	1	1	1	3	1	1	2	1	1
CO2	3	3	2	2	1	2	1	3	1	1	1	2	1	1
CO3	3	3	3	3	1	1	1	2	3	-	2	1	3	2
CO4	3	3	2	3	1	1	2	3	3	1	1	2	2	3
CO5	3	3	2	3	1	1	2	1	3	-	2	1	2	2

M.Sc I sem (Classical Mechanics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	2	1	2	2	3	1	1	2	2	2
CO2	3	3	2	3	1	3	1	1	3	1	1	2	2	1
CO3	3	3	2	3	2	2	2	1	3	1	2	1	2	3
CO4	3	3	2	3	1	1	2	2	2	3	1	1	2	2
CO5	3	3	2	3	1	-	2	2	3	1	1	1	2	3

M.Sc I sem (Nuclear and Particle Physics-General)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	1	1	2	1	3	2	1	1	2	3
CO2	3	3	2	3	1	1	2	3	3	2	2	2	2	3
CO3	3	3	3	3	2	1	2	2	3	2	2	2	3	3
CO4	3	3	2	3	1	2	2	1	3	2	1	2	1	2
CO5	3	3	2	3	3	3	2	2	3	1	2	2	2	2

M.Sc I sem (Condensed Matter Physics-General)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	2	3	2	2	3	-	2	2	3	2
CO2	3	3	2	3	2	2	3	2	3	2	1	2	2	2
CO3	3	3	2	3	1	1	2	2	3	2	1	1	2	1
CO4	3	3	2	3	2	1	2	2	3	2	1	1	2	3
CO5	3	3	2	3	2	1	2	3	3	1	1	2	2	2

M.Sc I sem (Instrumentation)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	3	2	3	3	1	2	2	3	3
CO2	3	3	3	3	2	3	2	3	3	1	2	2	3	3
CO3	3	3	2	3	2	2	2	1	3	2	2	2	3	3
CO4	3	3	3	3	3	3	2	2	3	2	1	2	3	3

M.Sc II sem (Quantum Mechanics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	1	2	2	2	3	1	1	2	2	2
CO2	3	3	3	3	1	2	2	1	2	-	1	2	2	1
CO3	3	3	2	3	1	1	2	2	3	1	1	2	2	3
CO4	3	3	3	3	1	1	2	2	1	1	2	1	1	3
CO5	3	3	3	3	2	2	2	3	3	2	1	2	3	3

M.Sc II sem (Atomic, Molecular and Optical Physics -General)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	2	2	3	3	1	1	1	1	1
CO2	3	3	3	3	3	2	2	3	3	1	1	1	1	1
CO3	3	3	2	3	2	3	3	2	3	1	2	2	1	1
CO4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	2	3	3	2	1	2	2	1	1	1	2	1
CO6	3	3	2	3	3	2	1	2	2	1	1	1	2	1

M.Sc II sem (Electronics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	3	3	3	2	3	2	2	2	3
CO2	3	3	3	3	3	3	2	3	3	2	2	2	2	3
CO3	3	3	3	3	3	3	2	2	3	2	1	2	2	3
CO4	3	3	3	3	3	3	2	3	3	2	2	2	2	1
CO5	3	3	3	3	3	3	2	2	3	2	2	2	2	2
CO6	3	3	3	3	3	3	2	2	3	2	2	2	2	2

M.Sc II (Material Science)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	2	2	2	3	3	3	2	2	3	3
CO2	3	3	2	2	2	2	2	3	3	2	2	2	3	3
CO3	3	3	2	2	2	2	2	3	3	2	2	2	3	3

M.Sc III (Statistical Mechanics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	1	1	2	2	2	3	2	2	2	2
CO2	3	3	3	3	2	2	2	2	3	2	2	2	2	2
CO3	2	2	3	3	2	2	2	2	3	2	2	2	2	2
CO4	2	2	3	3	2	2	2	2	3	2	2	2	2	2
CO5	2	2	3	3	2	2	2	2	3	2	2	2	2	2

M.Sc III (Classical Electrodynamics)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	2	2	3	2	2	2	2	2	2	2	2	2	2
CO2	3	3	2	3	2	2	2	2	3	2	2	2	2	2
CO3	3	2	2	3	2	2	3	2	2	2	2	2	3	2
CO4	3	3	2	3	3	2	1	2	2	1	1	1	2	1
CO5	2	2	2	2	2	2	2	2	2	2	2	2	2	2

M.Sc III (Condensed Matter Physics -I)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO2	3	3	3	2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	2	2	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO6	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO7	3	3	3	3	3	3	2	2	2	2	2	2	2	2

M.Sc IV (Quantum Mechanics -II)

Cos/Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	2	2	2	2	2	2	2	2	3	2
CO2	3	3	3	3	2	2	2	2	2	2	2	1	1	2
CO3	3	3	3	2	2	2	2	2	2	2	2	1	1	1
CO4	3	3	3	3	3	3	3	3	2	3	2	2	2	3
CO5	3	3	3	3	3	3	3	2	2	2	2	2	2	2

M.Sc IV (Mathematical Methods in Physics -II)

Cos/Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	2	3	3	2	3	2	2	2	2	2	2	2	2	2
CO2	2	2	2	2	2	2	2	2	2	2	2	3	3	2
CO3	3	2	2	2	2	2	2	2	2	2	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	2	2	2	2	2	2	2	2	3

M.Sc IV (Condensed Matter Physics -II)

Cos/Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO2	3	3	3	2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	2	2	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO6	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO7	3	3	3	3	3	3	2	2	2	2	2	2	2	2

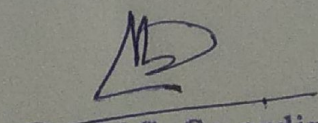
M.Sc IV (Condensed Matter Physics -III)

Cos/Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO2	3	3	3	2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	2	2	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO6	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO7	3	3	3	3	3	3	2	2	2	2	2	2	2	2

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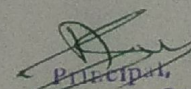
Co-ordinator

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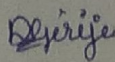


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Evaluation Mapping

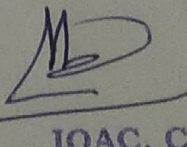
Evaluation Pattern:	20 Marks Internal Assessment Test
	80 Marks University end Examinations
Question Paper Pattern:	04 Marks (Descriptive)
	12 Marks (Analytical/Descriptive)
Parameters of Patterns:	1. Skill based
	2. Understanding
	3. Logical Ability
	4. Numerical/Analytical
	5. Descriptive/Diagram
	6. Practical's

Sl.No	Types Parameter	Percentage
1	Skill Based	10%
2	Understanding	15%
3	Logical Ability	5%
4	Numerical /Analytical	15%
5	Descriptive/Diagram	20%
6	Practical's	35%
		100%



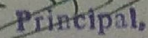
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Practical Evaluation Mapping:

Evaluation Pattern	:	20 Marks Internal Assessment Test
		80 Marks University end Examinations
Practical Assignment Lab Writing	:	30 Marks
Execution of experiment	:	30 Marks
Viva-Voce	:	10 Marks
Journal/Laboratory Report	:	10 Marks
Total	:	80 Marks

Evaluation Mapping

Sl.No	Types Parameter	Percentage
1	Skill Based	30%
2	Understanding	10%
3	Logical Ability	10%
4	Descriptive/Diagram	20%
5	Practical's	30%
		100%

[Signature]

Co-ordinator

Department of PG Studies in Physics
S.B. Arts & K.C.P. Science College
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S.B. Arts & K.C.P. Science College,
Vijayapur.

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Principal

S.B. Arts & K.C.P. Sc. College
Bijapur

Mapping of Course Outcome with Programme Outcomes and Programme Specific Outcome

M.Sc I sem (Mathematical Methods in Physics)

Cos/Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	3	2	1	1	1	3	1	1	2	1	1
CO2	3	3	2	3	2	1	2	1	3	1	1	1	2	1	1
CO3	3	3	3	3	3	1	1	1	2	3	-	2	1	3	2
CO4	3	3	2	3	3	1	1	2	3	3	1	1	2	2	3
CO5	3	3	2	3	3	1	1	2	1	3	-	2	1	2	2

M.Sc I sem (Classical Mechanics)

Cos/Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	3	2	1	2	2	3	1	1	2	2	2
CO2	3	3	2	3	3	1	3	1	1	3	1	1	2	2	1
CO3	3	3	2	3	3	2	2	2	1	3	1	2	1	2	3
CO4	3	3	2	3	3	1	1	2	2	2	3	1	1	2	2
CO5	3	3	2	3	3	1	-	2	2	3	1	1	1	2	3

M.Sc I sem (Nuclear and Particle Physics-General)

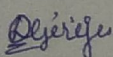
Cos/Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	3	1	1	2	1	3	2	1	1	2	3
CO2	3	3	2	3	3	1	1	2	3	3	2	2	2	2	3
CO3	3	3	3	3	3	2	1	2	2	3	2	2	2	3	3
CO4	3	3	2	3	3	1	2	2	1	3	2	1	2	1	2
CO5	3	3	2	3	3	3	3	2	2	3	1	2	2	2	2

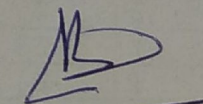
M.Sc I sem (Condensed Matter Physics-General)


Cos/Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	2	3	2	2	3	-	2	2	3	2
CO2	3	3	2	3	3	2	2	3	2	3	2	1	2	2	2
CO3	3	3	2	3	3	1	1	2	2	3	2	1	1	2	1
CO4	3	3	2	3	3	2	1	2	2	3	2	1	1	2	3
CO5	3	3	2	3	3	2	1	2	3	3	1	1	2	2	2

M.Sc I sem (Instrumentation)

Cos/Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	3	3	2	3	3	1	2	2	3	3
CO2	3	3	3	3	3	2	3	2	3	3	1	2	2	3	3
CO3	3	3	2	3	3	2	2	2	1	3	2	2	2	3	3
CO4	3	3	3	3	3	3	3	2	2	3	2	1	2	3	3


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M.Sc II sem (Quantum Mechanics)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	3	1	2	2	2	3	1	1	2	2	2
CO2	3	3	3	3	3	1	2	2	1	2	-	1	2	2	1
CO3	3	3	2	3	3	1	1	2	2	3	1	1	2	2	3
CO4	3	3	3	3	3	1	1	2	2	1	1	2	1	1	3
CO5	3	3	3	3	3	2	2	2	3	3	2	1	2	3	3

M.Sc II sem (Atomic, Molecular and Optical Physics -General)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	3	2	2	3	3	1	1	1	1	1
CO2	3	3	3	3	3	3	2	2	3	3	1	1	1	1	1
CO3	3	3	2	3	3	2	3	3	2	3	1	2	2	1	1
CO4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	2	3	3	3	2	1	2	2	1	1	1	2	1
CO6	3	3	2	3	3	3	2	1	2	2	1	1	1	2	1

M.Sc II sem (Electronics)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	3	3	3	3	2	3	2	2	2	3
CO2	3	3	3	3	3	3	3	2	3	3	2	2	2	2	3
CO3	3	3	3	3	3	3	3	2	2	3	2	1	2	2	3
CO4	3	3	3	3	3	3	3	2	3	3	2	2	2	2	1
CO5	3	3	3	3	3	3	3	2	2	3	2	2	2	2	2
CO6	3	3	3	3	3	3	3	2	2	3	2	2	2	2	2

M.Sc II (Material Science)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	2	2	2	3	3	3	2	2	3	3
CO2	3	3	2	3	2	2	2	2	3	3	2	2	2	3	3
CO3	3	3	2	3	2	2	2	2	3	3	2	2	2	3	3

M.Sc III (Statistical Mechanics)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	3	1	1	2	2	2	3	1	1	1	1
CO2	3	3	3	3	3	2	2	2	2	3	1	1	1	1	1
CO3	2	2	3	3	3	2	2	2	2	3	1	1	1	1	1
CO4	2	2	3	3	3	2	2	2	2	3	1	1	1	1	1
CO5	2	2	3	3	3	2	2	2	2	3	1	1	1	1	1

M.Sc III (Classical Electrodynamics)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	2	2	3	3	2	2	2	2	2	2	1	1	1	1
CO2	3	3	2	3	3	2	2	2	2	3	1	1	1	1	1
CO3	3	2	2	3	3	2	2	3	2	2	1	1	1	1	1
CO4	3	3	2	3	3	3	2	1	2	2	1	1	1	1	1
CO5	2	2	2	3	2	2	2	2	2	2	2	1	1	1	1

M.Sc III (Condensed Matter Physics -I)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	2	2	2	2	3	3	2	2	2	2	1
CO2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	1
CO3	3	3	3	3	3	2	2	2	3	3	3	2	2	2	1
CO4	3	3	3	3	2	2	1	2	2	2	2	2	2	2	1
CO5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1
CO6	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1
CO7	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1

M.Sc IV (Quantum Mechanics -II)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	2	3	3	2	2	2	2	2	2	2	2	3	2
CO2	3	3	3	3	3	2	2	2	2	2	2	2	1	1	2
CO3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1
CO4	3	3	3	3	3	3	3	3	3	2	3	2	2	2	3
CO5	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2

M.Sc IV (Mathematical Methods in Physics -II)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	2	3	3	3	2	3	2	2	2	2	2	2	2	2	2
CO2	2	2	2	3	2	2	2	2	2	2	2	2	3	3	2
CO3	3	2	2	3	2	2	2	2	2	2	2	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3

M.Sc IV (Condensed Matter Physics -II)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	3	2	2	2	3	3	3	3	3	2	2
CO4	3	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO6	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO7	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2

M.Sc IV (Condensed Matter Physics -III)

Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
CO1	3	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	3	2	2	2	3	3	3	3	3	2	2
CO4	3	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO6	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO7	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2

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