

### 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 a Learning Outcome(	
Metric No.2.6.1:	Programme Programme Specific and Course Outcomes	Outcomes, 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. Progr	amme 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. Progra	mme 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

N. C. T.	semester: Mathematical Methods in Physics  of special functions to solve problems on in physics problems
M.Sc 18	Applications of Special functions to solve problems on in physics  Applications of Matrices and Integral transforms to solve physics problems  Applications of Matrices and Integral transforms to solve physics
COI	Applications of special residues and Integral transforms to solve physics pro-
CO2	Study the tensors quantities in physics  Study the tensors quantities in physics
CO3	
CO4	Use of group theory to molecular spectra  Use of group theory to molecular spectra  Physical Problems
CO5	Use of group theory to molecular spectral Applications of Greens function to solve Physical Problems
M.Sc 1 S	
CO1	Able to understand the mechanical finding the force, energy ,etc
CO2	Converting two hody problem into single body problem
CO3	la tal di Chada in fivod and movino Coolulliate si sterio
CO4	To Study the conservation laws of physics in vector form using ordered
CO5	Application of Hamiltonian mechanics
M.Sc I S	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.
-	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.
	emester: 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
	Semester: Quantum Mechanics-I
CO1	Students can understand the how to find position and
CO2	Students can understand the how to find position and momentum of a particles
CO3	To understand the applications and physical interpretation of Schrödinger wave equation  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
	Semester: Atomic, Molecular and Optical Physics (General)
CO1	To understand the structure of atoms and its properties
CO <sub>2</sub>	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 lease t
CO6	To understand the experiment on divergence of laser beam using grating element  Students can find the numerical aperture of optical fiber
M.Sc II S	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  To understand be a second from the second from
CO5	To understand how to converts digital to analog
206	To study how to reduce the logic expression using k-map
	the rogic expression using k-map
M.Se II S	Semester: Material Science
CO1	To study the types of materials and its properties
	and its properties

	the ametals
CO2	Students can understand how to grow the crystals  Students can understand how to grow the crystals  Alboratory diagrams in solids
	They can understand the physic diag.
M Sc III	Stotistical Viculation
COI	To Study the difference between the microscopic and macroscopic systems  To build the knowledge about interaction between heat and systems and different types of
CO2	To build the knowledge about interaction between near and
02	interactions in the particles in different states
CO3	
CO4	Culdeste can understand black-body radiation
00=	To get the knowledge about fluctuations.
M Sc III	Classical Electrodynamics
COI	How to find the force and filed of a point charge
CO2	- 1 11 the length of the second dielectric inactions in circumstance
CO3	a 1.1 - Cause and field Phylov OI a III oving
CO4	To a sundamentand the lise of waveguide as a option
COE	They can understand about plasma state and nydrodynamics
M So III	- 1 1 M. 440 Phyclos - 11
CO1	
CO2	
And in case of the latest particular to the la	The standades about Y-rays Phonois and photons and the first
CO3	Students can understand transparent in semiconductors and metals  Students can understand transparent in semiconductors and metals
CO4	To study how to classify the magnetic materials and their temperature
CO5	To study the hall effect in metals and selliconductors
CO6	Experiment to find heat capacity of metals using calorimeter
CO7	C
CO1	To get knowledge about the dynamics of a system in operator return
CO2	To study about vector form of angular momentum  To study about vector form of angular momentum  To study about vector form of angular momentum
CO3	To study about vector form of angular momentum  To get knowledge about how to find correction to energy and wave function of a physical system
CO4	To study about relativistic OM
CO5	Semester: Advanced Mathematical Methods in Physics-II)
CO1	
	How to solve differentiation and integration and equations using numerical methods
CO2	How to apply partial differential equations to physics
CO3	To colve numerical problems of physical systems
CO4	To get physical systems knowledge about probability theory.
CO5	Samoster: Condensed Matter Physics -11
CO1	m . I de dialactric materials and ils properties
CO2	Study properties the phase transformation in ferroelectric materials
CO3	Pasics 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 an superconductors
The second second second second	They get knowledge about synthesis and characterization of nonmaterial's

Algerijis Co-ordinator Department of PG Studies in Physics
S.B. Arts and KCP Science College
VIJAYAPTE

IQAC, Co-ordinate

S.B. Arts & K.C.P. Science College,
Vijayapte.

8.B. Arts & K.C.P. Sc. College

# Mapping of Course Outcome with Programme Outcomes and Programme Specific Outcome

## M.Sc I sem (Mathematical Methods in Physics)

Cos\Pos and	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO
PSOs		1	2	3	2	1	1	1	3	1	1	2	1	1
CO1	3	3	2	2	1	2	1	3	1	1	1	1	1	1
CO2	3	3	2	12	1	1	1	2	3	-	2	1	3	2
CO3	3	3	2	3	1	1	12	3	3	1	1	2	12	3
CO4	3	3	12	2	1	1	2	1	3	-	2		12	12
CO5	3	3	14	3	1		1-							

#### M.Sc I sem (Classical Mechanics)

Cos\Pos and	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PS01
<b>PSOs</b>							12	2	3	1	1	2	2	2
CO1	3	3	2	3	2	1	12	1	2	1	1	2	2	1
CO2	3	3	2	3	1	3	1	1	3	1	2	1	2	3
CO3	13	3	2	3	2	2	2	1	3	2	1	1	2	2
CO4	13	3	2	3	1	1	2	2	2	1	1	1	2	3
CO5	13	3	2	3	1	-	2	2	3		1		12	13

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

Cos\Pos and	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PS
PSOs		12	2	2	1	1	2	1	3	2	1	1	2	3
COI	3	3	1	3	1	1	2	2	2	12	2	2	2	3
CO2	3	3	2	3	1	1	12	3	3	4	2	2	12	13
	2	12	3	3	2	1	2	2	3	2	2	1	3	10
CO3	3	13	1 3	12	1	12	12	1	3	2	1	12	11	12
CO4	3	3	2	3		1	4	1	10	1	1	1	12	12
CO5	3	3	2	3	3	3	2	2	3		12	12	14	12

#### 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
CO1	3	3	3	3	2	3	2	2	3	-	2	2	3
CO2	3	3	2	3	2	2	3	2	3	2	1	2	2
CO3	3	3	2	3	1	1	2	2	3	2	1	1	2
CO4	3	3	2	3	2	1	2	2	3	2	1	1	2
CO5	3	3	2	3	2	1	2	3	3	1	1	2	2

#### M.Sc I sem (Instrumentation)

Cos\Pos and PSOs	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO
CO1	3	3	3	3	3	3	2	3	3	1	2	2	3
CO2	3	3	3	3	2	3	2	3	3	1	2	2	3
CO3	3	3	2	3	2	2	2	1	3	2	2	2	13
CO4	3	3	3	3	3	3	2	2	3	2	1	2	3

## M.Sc II sem (Quantum Mechanics)

Cos\Pos	POI	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSOII
PSOs						_	2	2	2	1	1	2	2	2
COI	3	3	2	3	1	2	2	2	3	1	1	2	2	1
CO2	3	3	3	3	1	2	2	1	2	-	!	2	2	2
CO3	3	13	2	3	1	1	2	2	3	1	1	2	4	3
	13	2	3	3	1	1	2	2	1	1	2	1	1	3
CO4	13	3	3	3	2	2	2	3	3	2	1	2	3	3
CO5	13	3	3	3	1	1	14	3	13		-			

## 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	
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
C06	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	POI	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO <sub>10</sub>	P801
PSOs	101						2	2	2	3	2	2	2	2
COI	3	3	3	3	1	1	2	2	3	2	2	2	2	2
CO2	3	3	3	3	2	2	1	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	2	2	2	2	2	2
CO5	2	2	3	3	2	2	2	12	3					

#### M.Sc III (Classical Electrodynamics)

									-		The same of the sa	1		
Cos\Pos	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PS09	PSO10	PS01
PSOs				-	2	1	2	2	2	2	2	2	2	12
CO1	3	2	2	3	2	1	1	1	2	2	2	2	2	2
CO2	3	3	2	3	2	2	2	2	3	2	2	4	2	2
	3	10	2	2	2	12	2	2	2	2	2	2	3	2
CO3	3	2	2	3	2	4	3	4	-	1	1	1	2	1
CO4	3	3	2	3	3	2	1	2	2	1	1	1	4	1
	3	13	12	3	12	2	2	2	2	2	2	2	2	2
CO5	2	2	2	2	2	2	12	12	4	4	2	-		

#### M.Sc III (Condensed Matter Physics -I)

01	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
	3	3	2	2	2	2	3	3	2	2	2	2	3
	3	3	2	2	2	2	2	2	2	2	2	2	2
	3	3	3	2	2	2	3	3	3	3	3	2	2
	3	3	2	2	1	2	2	2	2	2	2	2	3
	3	3	3	3	3	3	3	2	2	2	2	2	3
	3	3	3	3	3	3	3	3	2	3	3	3	3
	3	3	3	3	3	2	2	2	2	2	2	2	2
		3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3     3     2     2       3     3     3     2	3     3     2     2     2       3     3     3     2     2	3     3     2     2     2     2       3     3     2     2     2     2       3     3     2     2     1     2       3     3     3     3     3       3     3     3     3     3       3     3     3     3     3       3     3     3     3     3	3     3     2     2     2     2     2       3     3     3     2     2     2     2       3     3     2     2     1     2     2       3     3     3     3     3     3       3     3     3     3     3     3       3     3     3     3     3     3       3     3     3     3     3     3	3     3     2     2     2     2     2     2       3     3     3     2     2     2     2     3     3       3     3     2     2     1     2     2     2       3     3     3     3     3     3     3       3     3     3     3     3     3     3       3     3     3     3     3     3     3       3     3     3     3     3     3     3	3     3     2     2     2     2     2     2     2       3     3     3     2     2     2     2     3     3       3     3     2     2     1     2     2     2     2       3     3     3     3     3     3     3     2     2       3     3     3     3     3     3     3     3     2       3     3     3     3     3     3     3     3     2       3     3     3     3     3     3     3     2       3     3     3     3     3     3     3     2	3     3     2     2     2     2     2     2     2     2     2     2     3 <td>3     3     2     2     2     2     2     2     2     2     2     2     2     2     3<td>3     3     2</td></td>	3     3     2     2     2     2     2     2     2     2     2     2     2     2     3 <td>3     3     2</td>	3     3     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
COI	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	POI	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

Co-ordinator

IQAC, Co-ordinator

Department of PG Studies in Physics B. Arts & K.C.P. Science College,
S.B. Arts and KCP Science College
VIJAYAPUR
Generated by CamScanner

K.C.P. Sc. College Bijapur.

## **Evaluation Mapping**

**Evaluation Pattern:** 

20 Marks Internal Assessment Test

80 Marks University end Examinations

Question Paper Pattern:

0 4 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

SI.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%	

IQAC, Co-ordinator S.B. ATTS & K C

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

VIJAYAPUR

Practical Evaluation Mapping:

20 Marks Internal Assessment Test **Evaluation Pattern** 

80 Marks University end Examinations

30 Marks Practical Assignment Lab Writing:

30 Marks **Execution of experiment** 

10 Marks Viva-Voce

10 Marks Journal/Laboratory Report

80 Marks Total

#### **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%	

Co-ordinator

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

IQAC, Co-ordinator

Bijapur

## Mapping of Course Outcome with Programme Outcomes and Programme Specific Outcome

M.Sc I sem (Mathematical Methods in Physics)

om (w	latifen	Idilea			1		The same of the sa							
PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PS09	PSO16	PS011
		-	2	2	2	1	1	1	3	1	1	12		11
3	3	2	3	3	1	1	1	2	1	1	1	12	1	1
3	3	2	3	2	1	2		3	1	1	1	1	3	12
2	12	3	3	3	1	1	1	2	3	-	2	1	3	12
3	)	13	13	3	1	1	12	2	3	1	1	12	12	3
3	13	2	3	3	1	1	12	3	1	1	2	1	2	12
3	3	2	3	3	1	1	2	1	3	-	2	11	1-	
The same of the sa						7000	PGG2 PGG2	POOR POOR POOR	POOR POOR POOR POOR	7000 PCO2 PCO1 PSO5 PSO6	7002 PGO1 PSO5 PSO6 PSO7	PSO3 PSO4 PSO5 PSO6 PSO7 PSO8	PSO1 PSO1 PSO1 PSO5 PSO6 PSO7 PSO8 PSO9	PO1         PO2         PO3         PO4         PS01         PS02         PS03         PS04         PS05         PS06         PS07         PS08         PS09         PS016           3         3         2         3         3         2         1         1         1         3         1         1         2         1           3         3         2         3         2         1         2         1         3         1         1         1         2         1           3         3         3         3         3         1         1         1         2         3         -         2         1         3           3         3         2         3         3         1         1         2         3         3         1         1         2         2         1         3           3         3         2         3         3         1         1         2         3         3         1         1         2         2         1         2         2         1         3         -         2         1         2         2         1         3         -         2

M.Sc I sem (Classical Mechanics)

IVI.SC I Se	em (CI	assica	1 Micc	names				1					1000		
Cos\Pos and	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PS05	PSO6	PSO7	PSO8	PSO9	PSO10	PSOII
PSOs			-	12	2	2	1	2	2	3	1	1	2	12	12
CO1	3	3	12	1 3	3	1	1	1	1-	2	1	1	2	12	1
CO2	3	3	2	3	3	1	3	1		15	1	1	1-	2	2
THE RESERVE THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	2	3	2	3	3	2	2	2	1	3	1	2	1	1-2	3
CO3	13	13	12	2	2	1	1	2	2	2	3	1	1	2	2
CO4	3	3	2	3	3	1	1	1	12	2	1	1	1	12	3
CO5	3	13	2	3	3	1	-	2	12	13	1	1	11	1-	

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

IVI.SC I	sem (1)	uclear	anu i	artici	C I Hysic	Gene	1	1							
Cos\Pos an d PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSOII
	2	3	2	3	3	1	1	2	1	3	2	1	1	2	3
COI	3	3	2	2	2	1	1	2	3	3	2	2	2	12	3
CO2	3	3	2	3	3	1	1	4	3	2	2	2	2	3	13
CO3	3	3	3	3	3	2	1	2	12	3	12	12	12	3	13
CO4	3	3	2	3	3	1	2	2	1	3	2	1	2	1	12
	3	13	2	2	2	2	3	2	2	3	1	2	2	2	2
CO5	3	13	12	13	)	)	1	4	-		-				

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	PS011
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	POI	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PS011
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

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

S.B.Arts & K.C.P.Science College,
Vijayapur.

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

#### 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	13	2	3	3	1	2	2	2	3	1	1	2	2	2
A STATE OF THE PARTY OF THE PAR	3	3	3	3	3	1	2	2	1	2	-	1	2	2	1
CO2	13	12	12	2	3	1	1	2	2	3	1	1	2	2	3
CO3	13	3	12	13	3	1	1	2	2	1	1	2	1	1	3
CO4	3	3	3	3	3	1	1	2	2	2	2	1	2	3	3
CO5	3	13	3	3	3	2	2	2	5	3	1	1			

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
		1	12	12	2	2	2	2	3	3	1	1	1	1	1
CO1	13	3	13	3	3	3	1	1	3	2	1	1	1	1	1
CO2	13	3	13	3	3	3	2	2	3	3	1	1	1	1	1
	12	2	12	3	13	2	3	3	2	3	1	2	2	1	1
CO3	3	)	14	)	13	12	13	2	2	2	3	3	3	3	3
CO4	13	3	3	3	3	3	3	3	3	3	3	3	3	2	1
	12	13	12	3	3	3	2	1	2	2	1	1	1	2	1
CO5	)	3	12	3	13	12	12	1	12	2	1	1	1	2	1
C06	13	3	2	3	3	3	12	1	1 4	4	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
	12	3	3	3	3	3	3	3	3	2	3	2	2	2	3
CO1	3	2	12	2	3	3	3	2	3	3	2	2	2	2	3
CO2	3	3	3	)	3	2	2	2	2	2	2	1	2	2	3
CO3	3	3	3	3	3	3	3	2	12	3	2	1	2	2	1
CO4	3	3	3	3	3	3	3	2	3	3	2	2	2	1	1
	2	13	3	3	3	3	3	2	2	3	2	2	2	2	2
CO5	3	3	13	2	2	2	2	2	2	3	12	2	2	2	2
CO6	3	13	13	3	3	3	)	14	14	13	12	14	14	12	1-

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	13	3	3	3	2	2	2	3	3	3	2	2	3	3
CO2	3	13	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	POI	PO2	PO3	PO4	PSOI	PS02	PS03	P504	PS05	250%	2567	PNE	ESSE.	PARIN	PATOI
COl	13	3	3	3	13	1	1 12	-	~	_					
COS	12	-		-	-				_	12	-				179
CO2	3	13	3	13	3	2	7	7	7	2	70	-	-	-	1000
CO3	7	12	3	1 3	-	-	-	-	1-	1-2	-	-	-		
	-	1 4	3	13	3	12	2	2	2	-	7	7	7		-70
CO4	12	12	3	3	3	12	7	-	-	_			-		-
COE	1	1				1 -	14	4	2	5	2	2	7	7	773
CO5	14	12	3	3	3	12	7	7	7	2	70	-	-		
								-	-	2	-	-			The same of

#### M.Sc III (Classical Electrodynamics)

Cos\Pos and PSOs	POI	PO2	P03	PO4	PSOI	PS02	PS03	PS04	PS05	PS06	PS07	PS08	PSIP .	2500s	- The state of the
COI	13	12	2	3	3	2	2								
CO2	2	1		17	-2	-	4	14	2	12	2	2	1	1	-
	3	13	12	5	3	2	2	2	3	3	7	-	-		
CO3	3	12	2	3	3	2	2	-	-	-	-	_		94	
CO4	2			-	-	-	-	3	2	12	2	12	2	3	
	3	)	2	3	3	3	2	3	7	7	3 12	9 70	20		
005	2	)	2	3	2	7		-	-	-	4		18		
			- 1	9	-	-	-	2	5	2	2	2	7	2	

#### M.Sc III (Condensed Matter Physics -I)

Cos\Pos and PSOs	POI	PO2	PO3	PO4	PSOI	PSO2	PS03	PS04	1805	PS06	1907	1508	1506	18010	-
COI	3	13	3	13	2	1	-		-		-			-	- MANO
CO2	3	1	-	-	-	42	-	4	3	3	2	2	3	3	-
	J-	13	3	3	2	2	2	2	2	)	1	1	-	Name and Address of the Owner, where the Owner, which is the Ow	The state of the s
003	3	3	3	3	3	2	3	1	3	-	*	*	-	12	-
04	3	3	3	3	,	3	1	*	3	3	3	3	3	2	1
05	3	3	3	3	3	3	-	4	4	2	13	5	2	3	3
06	3	3	3	3	3	3	3	3	3	5	3	2	3	13	The state of the s
07	The state of the s	2	2	3	)	3	3	3	3	3		3	-	The same of	and the same
.01	3	3	3	3	3	3	3	2	1	3	-	- Comment		3	3

M.Sc IV (Qu	antum l	Mechan	ics -II)		1	1				T	T	1	1	T	1
Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
and 1 50s									10	12	2	2	2	3	2
CO1	3	3	2	3	3	2	2	2	2	12	12	12	1	1	2
CO2	3	3	13	13	3	2	2	2	2	2	12	12	1	1	1
	13	2	2	2	12	12	2	2	2	2	2	2	1	1	1
CO3	)	)	)	3	12	4	12	12	12	12	3	2	2	2	13
CO4	3	3	3	3	3	3	3	3	3	12	3	1	2	2	2
COS	13	3	13	3	3	3	3	3	2	2	2	12	14	12	1-

A.Sc IV (Mat Cos\Pos	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
and PSOs									2	2	2	2	2	2	2
CO1	2	3	3	3	2	3	2	2	2	1	2	2	2	2	2
CO2	12	12	2	13	2	2	2	2	2	2	2	2	5	3	2
CO2	12	12	2	3	2	12	2	2	2	2	2	3	3	3	2

2

COS	)	)	3	1 1
MENTILL	andanced	Matter	Physic	(II- 25

3

CO4

VI.SCIV (COI	lucilseu	Matter	I mysic	3 44/			_								
Cos\Pos and PSOs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11
The same of the sa	13	3	3	3	2	2	2	2	3	3	2	2	2	2	3
CO1	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO2	3	3	3	13	12	12	12	2	2	2	3	3	3	2	2
CO3	3	3	3	3	3	1	12	12	3	3	10	12	2	2	2
CO4	3	3	3	3	2	2	1	2	2	2	2	12	2	12	3
	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3
CO5	13	1	12	12	13	3	3	13	3	3	2	3	3	3	3
CO6	3	3	3	3	13	13	2	2	2	2	2	12	2	2	2
CO7	3	3	3	3	3	3	5	1	1 2	12	12	14	14	14	14

M.Sc IV (Condensed Matter Physics -III)

M.Sc IV (Cor	naensea	Matter	1 Hysic	3-111)		1									
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	13	3	3	2	2	2	3	3	3	3	3	2	2
CO4	13	3	3	3	2	2	1	2	2	2	2	2	2	2	3
CO5	3	3	13	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

Depoise Co-ordinator

Department of PG Studies in Physics
Arts and KCP Science College

- IQAC, Co-ordinator

S.B.Arts & K.C.P.Science College

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

1000