

B.L.D.E Association's
S. B. Arts and K. C. P. Science College,
Vijayapur



Department of PG Studies in Physics

BRIDGE COURSE

For

First Semester PG Students OF PHYSICS

(For the Academic Year 2023-24)

REPORT

2023-2024



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

Smt. Bangaramma Sajjan Campus, Shri B. M. Patil Road (Solapur Road), Vijayapur-586 103

Accredited with CGPA of 2.99 at B⁺⁺ Grade in 4th Cycle by NAAC

(Affiliated to Rani Channamma University, Belagavi)

Phone: (08352) 262770, Extn. 2223, 2224 Website: www.bldeashkcp.ac.in E-mail: bldeashkcp@gmail.com



Date: 03/01/2024

Department of PG Studies in Physics

Bridge Course 2023-2024

NOTICE

Notice to inform about conducting Bridge Course for Academic year 2023-2024 for M. Sc.
I semester Physics students. Classes for Bridge course will commence from 8th of January 2024 to
12th of January 2024.

All the M. Sc. 1st sem students have to attend the classes without fail.

Coordinator

Co-ordinator

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

IQAC Coordinator

IQAC, Co-ordinator

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

Principal

Principal,

S.B. Arts and KCP Science College
VIJAYAPUR

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S. B Arts and K. C. P Science College, Vijayapur
Department of PG Studies in PHYSICS
Bridge Course 2023-2024

TIME-TABLE 2023-2024

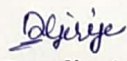
Time	08 Jan 2024	09 Jan 2024	10 Jan 2024	11 Jan 2024	12 Jan 2024	13 Jan 2024
3.00 to 4.00	GMN	SPS	SPS	SPS	UAS	UAS
4.00 to 5.00	—	—	—	GMN	—	UAS

Staff Members:

Dr. Girija M. Nimbal (GMN)

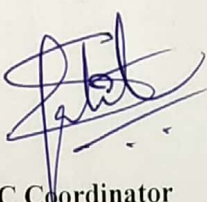
Prof. Soumya Sajjan (SPS)

Prof. Umerabanu Shaikh (UAS)


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SYLLABUS

Module 1:

2 Hours

Classical Mechanics- constraints, Lagrangian mechanics, and conservation laws

Quantum Mechanics- Compton effect, Planck's theory, de Broglie Hypothesis, Heisenberg's principle, Schrodinger's wave equation

Module 2:

2 Hours

Statistical Mechanics- Laws of thermodynamics, Maxwell's thermodynamic relations, Ensemble, Phase space, Maxwell-Boltzman Statistics, Fermi-Dirac Statistics, Bose-Einstein Statistics

Electrodynamics- Electrostatics, Magnetostatics, Electromagnetic Induction, Dielectrics, Maxwell's Equation, Electromagnetic Waves

Module 3:

2 Hours

Atomic and Molecular Physics- Vector Atom model, Pauli's Exclusion Principle, Zeeman Effect, Rayleigh and Raman Scattering.

Condensed Matter Physics- Crystal Structures, X-Ray Diffraction, Free electron theory of metals, Specific heat of solids,

Module 4:

2 Hours

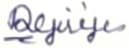
Nuclear Physics- Radioactive Decay, Detectors, Accelerators, Nuclear reactions, Nuclear reactors, Elementary particles

Electronics- Semiconductor Diode, Half-Wave Rectifier, Full-Wave Rectifier, Zener diode, Photodiode, Light emitting diode, Junction Transistor

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STUDENTS LIST

Sl. No	Student Name	Roll No.
1	Preksha Raju Bendawade	1
2	Mahalakshmi Mallyappagol	2
3	Abhishek Ashtekar	3
4	Vadiraj Kulkarni	4
5	Kavy Hampanagouda	5
6	Madan Chandargi	6
7	Vishalgouda Patil	7
8	Yuvaraj	8
9	Mallikarjun Shivayogi Kumbar	9
10	Mahashwetadevi , Mashetti	10



Coordinator

Co-ordinator

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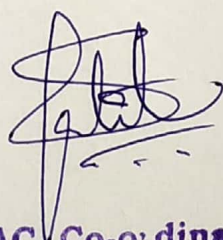
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Attendance list of M. Sc. I semester students

Roll No.	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8
	Date: 08/01/2024	Date: 09/01/2024	Date: 10/01/2024	Date: 11/01/2024	Date: 11/01/2024	Date: 12/01/2024	Date: 13/01/2024	Date: 13/01/2024
1	Preeti	Preeti	A	Preeti	Preeti	Preeti	Preeti	Preeti
2	msu	msu	msu	msu	msu	msu	A	msu
3	Preeti	Preeti	Preeti	Preeti	Preeti	Preeti	Preeti	Preeti
4	Preeti	A	Preeti	Preeti	Preeti	Preeti	Preeti	Preeti
5	Preeti	Preeti	Preeti	A	Preeti	Preeti	Preeti	Preeti
6	Preeti	Preeti	Preeti	Preeti	Preeti	A	Preeti	Preeti
7	A	VP	VP	VP	VP	VP	VP	VP
8	Preeti	Preeti	A	Preeti	Preeti	Preeti	Preeti	Preeti
9	A	MK	MK	MK	MK	MK	MK	MK
10	Preeti	Preeti	Preeti	Preeti	A	Preeti	Preeti	Preeti



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