

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 2015-16)

REPORT

2015-16



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

SHRI B. M. PATIL ROAD (Solapur Road), VIJAYAPUR

ACCREDITED at 'A' Grade in 3rd Cycle by NAAC

Phone: (08352) – 261766, (08352) 262770 Extn. 2223, 2224

Fax: 08352 – 261766 E-mail: bldeasbkcp@gmail.com

Web: www.bldeasbkcp.org



REF./ ಕ್ರಮಾಂಕ : _____

Date / ದಿನಾಂಕ: 13th -Aug-2015

Department of PG Studies in Physics

Bridge Course 2015-2016

NOTICE

Notice to inform about conducting Bridge course for Academic year 2015-2016 for M. Sc I semester Physics students. Classes for Bridge course will commence from 17th of August 2015 to 22nd of August 2015. The class timing will be from 9.00am to 11.00am. All the M. Sc I sem students have to attend the classes without fail.

Devijs

Coordinator

Co-ordinator

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

MS

IQAC Coordinator

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College
Vijayapur.

WJ

Principal

Principal,
S.B. Arts & K.C.P. Sc. College
Vijayapur

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S.B. ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR.

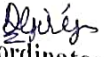
BRIDGE COURSE TIME-TABLE 2015- 2016

Time	Monday 17/8/2015	Tuesday 18/8/2015	Wednesday 19/8/2015	Thursday 20/8/2015	Friday 21/8/2015	Saturday 22/8/2015
9.00 to 11.00	GMN	SSB	PAT	GMN	SSB	PAT
3.00 to 4.00				PAT		
4.00 to 5.00						GMN


Staff Members:

Dr.Girija M.Nimbal (GMN)

Prof. Priyanka A.Tonage (PAT)


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


IQAC Co-ordinator
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S.B. Arts & K.C.P. So. College
Bijapur

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Department of PG Studies in PHYSICS
Bridge Course 2015-2016

SYLLABUS

No. of teaching hours: 02 hours for each module

Module 1: Classical Mechanics: Centre of Mass, Motion of Centre of mass, Pure Translational and Rotational motion, Torque and angular momentum, Principle of moments (Moment of Inertia), Radius of Gyration, Generalized Motion, and Kinematics of rotational motion about a fixed axis.

Module 2: Mechanical Properties of Solids and Fluids: Elastic behaviours of solids, Hooke's Law, Young's Modulus, Shear Modulus, Bulk Modulus, Applications of Elastic behaviours of materials, Compressibility, Viscosity, Relative density, Pascal's Law, Streamline Flow, Bernoulli's Principle, Surface Tension, Drops and Bubbles

Module 3: Waves and Oscillations: Rectilinear motion, Oscillations or Vibrations, Simple Harmonic Motion, Damped Harmonic motion: Real oscillatory system, Forced or Driven oscillation, TYPES OF WAVES, Superposition of Waves, Reflection and Refraction, Standing Waves and Normal Modes, Beats, Resonance, Doppler's Effect

Module 4: Electricity and Magnetism: Physical concepts of gradient, divergence, and curl; Laplacian operator, Concept of electricity and magnetism, Coulomb's law, Electrostatics, Magnetostatics, the Lorentz force, Maxwell's equations

Module 5: Electromagnetic Signal: Introduction to Maxwell's equations, The dynamical magnetic field, The dynamical electric field, Electromagnetic Waves

Module 6: Semiconductor Electronics: Classification of metals, conductors and semiconductors, Fermi Level, Intrinsic Semiconductor, Extrinsic Semiconductor, p-n junction, Semiconductor Diode, Half-Wave Rectifier, Full-Wave Rectifier, Zener diode, Photodiode, Light emitting diode, Junction Transistor

Module 7: Atomic and Nuclear Physics: Matters, Atoms, Atomic Theory: Atomic Theory by John Dalton, Atomic Theory by J. J Thompson, Atomic Theory by Ernest Rutherford, Atomic Theory by James Chadwick, Discovery of the Neutron, Bohr's Postulates, Proton, Neutron, Electron, Limitations of Bohr's Theory

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Department of PG Studies in PHYSICS
Bridge Course 2015-2016

STUDENTS LIST

Sl. No	Student Name	Roll.No
1	Akshata Kodate ✓	1
2	Anjana Kenganal ✓	2
3	Deepa Ullagaddi ✓	3
4	Diya Rudragoudar ✓	4
5	Gouri Dongare ✓	5
6	Halli Mahesh Revappa ✓	6
7	Hunnur Anand Chananbasapa ✓	7
8	Ilayi Bagawan ✓	8
9	Imran Galagali ✓	9
10	Jyotiba More ✓	10
11	Laxman Mane ✓	11
12	Niketa ✓	12
13	Pooja Joshi ✓	13
14	Prashantraddi Gabasavalagi ✓	14
15	Rajendra Tungal ✓	15
16	Shahanaz Nadaf ✓	16
17	Sharanu Kore ✓	17
18	Soumya Sajjan ✓	18
19	Teerhankar Tonage ✓	19
20	Tejas Awale ✓	20
21	Thaisin Kutubuddin Nimbale ✓	21
22	Varnashree Biradar ✓	22

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

M. B.
IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

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

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Department of PG Studies in PHYSICS
Bridge Course 2015-2016

Attendance list of students

Class: M.Sc- 1st semester
Staff: Dr. Girija M. Nimbal

Subject: Physics
Date: 16/8/2015 and 21/8/2015

Topic: Semiconductor Electronics, Atomic and Nuclear Physics and Waves and Oscillations

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature	R	Signature
1		6		11		17	
2		7		12		18	
3		8		13		19	
4		9		14		20	
5		10		15		21	
				16		22	

Staff: Prof. P.A. Tonage

Date: 18/8/2015, 19/8/2015 & 21/8/2015

Topic: Classical Mechanics and Mechanical Properties of Solids and Fluids

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature	R	Signature
1		6		11		17	
2		7		12		18	
3		8		13		19	
4		9		14		20	
5		10		15		21	
		16				22	

Staff: Prof. S.S. Biradar

Date: 17/8/2015 & 20/8/2015

Topic: Electricity and Magnetism, Electromagnetic Signal

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature	R	Signature
1		6		11		17	
2		7		12		18	
3		8		13		19	
4		9		14		20	
5		10		15		21	
				16		22	

Devi
Co-ordinator

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REF. _____

Date: 22-Aug-2015

Department of PG Studies in Physics

Bridge Course 2015-2016

NOTICE

The first semester students of M. Sc Physics are here by informed that the Bridge course test will be conducted on 25th of August 2015 at 11.00 am. All the students have to attend the test without fail.

Co-ordinator

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Question Paper

Answer any Ten of the following

2X10=20

1. Define center of mass.
2. What is meant by angular acceleration?
3. Define Moment of Inertia.
4. Define Stress and S.I unit of Stress.
5. Define hydraulic strain.
6. Define Surface Tension.
7. What are the types of motion?
8. Define rectilinear motion with example.
9. Define Oscillation and Vibration.
10. Define Simple pendulum.
11. Define semiconductors.
12. Define Intrinsic and Extrinsic semiconductors.



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BRIDGE COURSE MARKS LIST 2015-16

Class: M.Sc- I sem

Sub: Physics

Roll No	Marks	Roll No	Marks	Roll No	Marks
1	19	11	16	18	19
3	18	12	20	19	16
4	20	13	20	20	15
5	16	14	16	21	20
6	18	15	18	22	19
7	19	16	19		
10	17	17	17		



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