

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 2016-17)

REPORT

2016-17



**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: 13^{ನಾ} -Aug-2016

Department of PG Studies in Physics

Bridge Course 2016-2017

NOTICE

Notice to inform about conducting Bridge course for Academic year 2016-2017 for M. Sc I semester Physics students. Classes for Bridge course will commence from **16th of August 2016** to **22nd of August 2016**. All the M. Sc I 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 & K.C.P. Sc. College
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BRIDGE COURSE TIME-TABLE 2016-2017


Time	16/8/2016	17/8/2016	18/8/2016	19/8/2016	20/8/2016	22/8/2016
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)

Prof. Shreekant S.Biradar (SSB)


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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

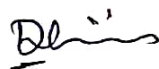
Module 6: Semiconductor Electronics: Classification of metals, conductors and semiconductors, Fermi Level, Intrinsic Semiconductor, Extrinsic Semiconductor, p-n junction, Semiconductor Diode, Half-Wave Rectifier, Full-Wave Rectifier, Zener diode, Photodiode, Light emitting diode, Junction Transistor

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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S. B Arts and K. C. P Science College, Vijayapur
Department of PG Studies in PHYSICS
Bridge Course 2016-2017

STUDENTS LIST

Sl. No	Student Name	Roll.No
1	Amrutesh Kannolli	1
2	Anuradha I Jangamashetti	2
3	Bhgyshee Herkal	3
4	T.Chaitra	4
5	Lata M.Kembhavinath	5
6	Jyoti Ukunnal	6
7	Mahantesh Pattanshetti	7
8	Yasin Ali	8
9	Niyaz Ahmed Bagwan	9
10	Rajakumar Golgai	10
11	Rani Badiger	11
12	Rekha.S. Biradar	12
13	Sheelavathi Moratagi	13
14	Shivarajkumar Hiremath	14
15	Zumra M.Inamdar	15


Co-ordinator

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S.B. Arts and KCP Science College
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Department of PG Studies in PHYSICS
Bridge Course 2016-2017

Attendance list of students

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

Subject: Physics
Date: 16/8/2016 and ²²21/8/2016

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

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature
1	A. Kamali	6	[Signature]	11	B. Rani
2	A. Jadhav	7	[Signature]	12	R. S. Badiger
3	[Signature]	8	[Signature]	13	[Signature]
4	[Signature]	9	N. A. Bagevan	14	S. H. Harmath
5	M. Benbari	10	[Signature]	15	[Signature]

Staff: Prof. P. A. Tonage

Date: 18/8/2016, 19/8/2016 & ²²21/8/2016

Topic: Classical Mechanics and Mechanical Properties of Solids and Fluids

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature
1	A. Kamali	6	[Signature]	11	B. Rani
2	A. Jadhav	7	[Signature]	12	R. S. Badiger
3	[Signature]	8	[Signature]	13	[Signature]
4	[Signature]	9	N. A. Bagevan	14	S. H. Harmath
5	M. Benbari	10	[Signature]	15	[Signature]

Staff: Prof. S. S. Biradar

Date: 17/8/2016 & 20/8/2016

Topic: Electricity and Magnetism, Electromagnetic Signal

Roll No.	Signature	Roll No.	Signature	Roll No.	Signature
1	A. Kamali	6	[Signature]	11	B. Rani
2	A. Jadhav	7	[Signature]	12	R. S. Badiger
3	[Signature]	8	[Signature]	13	[Signature]
4	[Signature]	9	N. A. Bagevan	14	S. H. Harmath
5	M. Benbari	10	[Signature]	15	[Signature]

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REF./PA/2016/AIAPA

Date /#EAAPA: 23-Aug-2016

Department of PG Studies in Physics

Bridge Course 2016-2017

NOTICE

The first semester students of M. Sc Physics are here by informed that the Bridge course test will be conducted on 27th of August 2016 at 11.00 am.

All the students have to attend the test without fail


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QUESTION PAPER

2X10=20

Answer any Ten of the following

1. Define angular velocity
2. What is meant by tensile Stress?
3. Write down the expression for Normal tensile stress.
4. Define Compressive stress.
5. Define strain and expression for longitudinal strain.
6. Write the expression for Reynold number.
7. Define periodic motion with example.
8. What are the types of simple harmonic motion?
9. What are types of wave?
10. Define longitudinal wave.
11. Write the Laplace and Poisson's equation.
12. Define Conductors.



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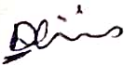
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BRIDGE COURSE MARKS LIST 2016-17

Class: M.Sc- I sem

Sub: Physics

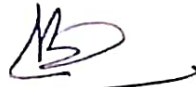
Roll No	Marks	Roll No	Marks	Roll No	Marks
1	20	11	16	18	20
3	19	12	18	19	19
4	17	13	15	20	16
5	14	14	20	21	13
6	18	15	19	22	14
7	20	16	18		
10	16	17	17		



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