

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 2017-18)

REPORT

2017-18



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



Date / ದಿನಾಂಕ: 11-Aug-2017

REF./ ಕ್ರಮಾಂಕ : _____

Department of PG Studies in Physics

Bridge Course 2017-2018

NOTICE

Notice to inform about conducting Bridge course for Academic year 2017-2018 for M. Sc I semester Physics students. Classes for Bridge course will commence from 14th of August 2017 to 21st of August 2017. 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.

Dy. Jey

Coordinator
Co-ordinator

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

[Signature]

IQAC Coordinator

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

[Signature]
Principal

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

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S.B. ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR.
BRIDGE COURSE TIME-TABLE 2017-2018

Time	14/8/2017	16/8/2017	17/8/2017	18/8/2017	19/8/2017	21/8/2017
9.00 to 11.00	GMN	SSB	SPS	GMN	SSB	SPS
3.00 to 4.00				JSN		
4.00 to 5.00						JSN

Staff Members:

- Dr. Girija M. Nimbale (GMN)
 Prof. Soumya Sajjan (SPS)
 Prof. Shreekanth S. Biradar (SSB)
 Prof. Siddaraya Jiranakalgi (JSN)




Coordinator
 Co-ordinator

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

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

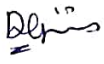
Module 7: Atomic and Nuclear Physics: Matters, Atoms, Atomic Theory: Atomic Theory by John Dalton, Atomic Theory by J. J Thompson, Atomic Theory by Ernest Rutherford, Atomic Theory by James Chadwick, Discovery of the Neutron, Bohr's Postulates, Proton, Neutron, Electron, Limitations of Bohr's Theory

STUDENTS LIST

Sl. No	Student Name	Roll.No
1	Akshata Ashok Kudache	1
2	Anand Chinagundi	2
3	Banashree Biradar	3
4	Kalavva Lakshman Badiger	4
5	Keshagond Vishwanath Mallikarjun	5
6	Laxmansingh Hajeri	6
7	Laxmi Bellundagi	7
8	Mahipati Kulkarni	8
9	Najamin Mehaboob Arab	9
10	Neelavati Hiremath	10
11	Pooja Nikkam	11
12	Rahul Utagi	12
13	Sangamesh Honakatti	13
14	Savalagi Shivaganga Abhaykumar	14
15	Seeta Vittal Kulakarni	15
16	Sheetal Tatyasaheb Naik	16
17	Shivanand Putagi	17
18	Veereshkumar Wali	18


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S.B. Arts and KCP Science College
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Attendance list of students

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

Subject: Physics
Date: 16/8/2017 & 19/8/2017

Topic: Semiconductor Electronics, Atomic and Nuclear Physics

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Adk	6	l. hajeri	11	Pooja	16	Sheetal
2	Anandc	7	lajmy	12	R utagi	17	S. putagi
3	Banashu	8	M kulakani	13	SH	18	V. wali
4	K. l B	9	N M A	14	SH		
5	Kum	10	Neelavali H	15	S.V.K.		

Staff: Prof. Soumya Sajjan

Date: 18/8/2017 & 22/8/2017

Topic: Classical Mechanics and Mechanical Properties of Solids and Fluids

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Adk	6	l. hajeri	11	Pooja	16	Sheetal
2	Anandc	7	lajmy	12	R utagi	17	S. putagi
3	Banashu	8	M kulakani	13	SH	18	V. wali
4	K. l B	9	N M A	14	SH		
5	Kum	10	Neelavali H	15	S.V.K		

Staff: Prof. S.S. Biradar

Date: 17/8/2017 & 21/8/2017

Topic: Electricity and Magnetism, Electromagnetic Signal

R. No.	Signature	R.No.	Signature	R. No.	Signature	R. No.	Signature
1	Adk	6	l. hajeri	11	Pooja	16	Sheetal
2	Anandc	7	lajmy	12	R utagi	17	S. putagi
3	Banashu	8	M kulakani	13	SH	18	V. wali
4	K. l B	9	N M A	14	SH		
5	Kum	10	Neelavali H	15	S.V.K		


Staff: Prof. S. Jiranakalgi

Date: 19/8/2017 & 22/8/2017

Topic: Waves and Oscillations

R.No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Adk	6	l. hajeri	11	Pooja	16	Sheetal
2	Anandc	7	lajmy	12	R utagi	17	S. putagi
3	Banashu	8	M kulakani	13	SH	18	V. wali
4	K. l B	9	N M A	14	SH		
5	Kum	10	Neelavali H	15	S.V.K		


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REF./ PÅæªÀiÁAPÀ :

Date /çÉÁAPÀ: 22-Aug-2017

Department of PG Studies in Physics

Bridge Course 2017-2018

NOTICE

The first semester students of M. Sc Physics are here by informed that the Bridge course test will be conducted on 26th of August 2017 at 11.00 am.

All the students have to attend the test without fail


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QUESTION PAPER

Answer any ten of the following

2X10=20

1. Define a translation motion.
2. Define Shear Modulus. What is its SI Unit?
3. Define Viscosity.
4. What is Pascal Law?
5. What is Coulomb's Law? Write the expression for it.
6. What is Doppler Effect?
7. What is the physical significance of gradient?
8. What are the uses of Zener diode?
9. Define a junction transistor.
10. What is Lorentz force?
11. Define streamline flow.
12. Write any two limitations of Bohr's theory.



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Department of PG Studies in PHYSICS
Bridge Course 2017-2018

BRIDGE COURSE MARKS LIST 2017-18

Class: M.Sc- 1 sem

Sub: Physics

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

Devin
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