

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 2019-20)

REPORT

2019-20



**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: 08-Aug-2019

Department of PG Studies in Physics

Bridge Course 2019-2020

NOTICE

Notice to inform about conducting Bridge course for Academic year 2019-2020 for M. Sc I semester Physics students. Classes for Bridge course will commence from 12th of August 2019 to 19th of August 2019. All the M. Sc Ist sem students have to attend the classes without fail.

Dejireji

Co-ordinator

Department of PG Studies in Physics
S.B. Arts and K.C.P. 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
Bijapur.

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BRIDGE COURSE TIME-TABLE 2019- 2020

Time	12/8/2019	13/8/2019	14/8/2019	16/8/2019	17/8/2019	19/8/2019
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.Nimbal (GMN)

Prof. Soumya Sajjan (SPS)

Prof. Shreekant S.Biradar (SSB)

Prof.Siddaraya Jiranakalgi (JSN)

Dy. Girija

Coordinator

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

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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

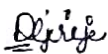
Module 3: Waves and Oscillations: Rectilinear motion, Oscillations or Vibrations, Simple Harmonic Motion, Damped Harmonic motion: Real oscillatory system, Forced or Driven oscillation, TYPES OF WAVES, Superposition of Waves, Reflection and Refraction, Standing Waves and Normal Modes, Beats, Resonance,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

Sl. No	Student Name	Roll. No
1	Aishwayarlaxmi Gatade	
2	Vidya M Yandalli	1
3	Shweta S.Holi	2
4	Nivedita N.Hiremath	3
5	Pramod V.Bilur	4
6	Prateek A Kaladagi	5
7	Chndrashekhar Bisanal	6
8	Laxmi A Desai	7
9	Shilpa V.Bandi	8
10	Arati Narasagoudar	9
11	Umerbanu A Shaik	10
12	Annapurna Prarappanavar	11
13	Aishwarya G. Attalatti	12
14	Prabhudeva. B.Hiremath	13
15	Shoheb M.Baxi	14
16	Vishalakshi I. Bendigeri	15
17	Shruti M.Paragouda	16
18	Prajakta S.Alagouda	17
19	Pooja S.Mane	18
20	Vinaysheela K.Savanur	


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Head
Department of Physics
S.B.Arts & K.C.P.Science College
Vijayapur-586103.


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Attendance list of students

Subject: Physics

Date: 16/8/2019 & 20/8/2019

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

Topic: Semiconductor Electronics, Atomic and Nuclear Physics

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1		6		11		16	
2	V.M. Vardoli	7		12		17	S.M. Faraguda
3		8		13		18	
4	M.H. Hasmath	9	S.V.B.	14		19	Prona
5	P.V. Bhat	10	A. Murguday	15		20	Sarun

Date: 19/8/2019 & 22/8/2019

Staff: Prof. Soumya Sajjan

Topic: Classical Mechanics and Mechanical Properties of Solids and Fluids

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1		6		11		16	
2	V.M. Vardoli	7		12		17	S.M. Faraguda
3		8		13		18	
4	M.H. Hasmath	9	S.V.B.	14		19	Prona
5	P.V. Bhat	10	A. Murguday	15		20	Sarun

Date: 17/8/2019 & 21/8/2019

Staff: Prof. S.S. Biradar

Topic: Electricity and Magnetism, Electromagnetic Signal

R. No.	Signature	R.No.	Signature	R. No.	Signature	R. No.	Signature
1		6		11		16	
2	V.M. Vardoli	7		12		17	S.M. Faraguda
3		8		13		18	
4	M.H. Hasmath	9	S.V.B.	14		19	Prona
5	P.V. Bhat	10	A. Murguday	15		20	Sarun

Date: 20/8/2019 & 22/8/2019

Staff: Prof. S. Jiranakalgi

Topic: Waves and Oscillations

R.No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1		6		11		16	
2	V.M. Vardoli	7		12		17	S.M. Faraguda
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4	M.H. Hasmath	9	S.V.B.	14		19	Prona
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Deputy
Co-ordinator

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REF / PAm*AlAAPA

Date / dEAAPA: 19-Aug-2019

Department of PG Studies in Physics

Bridge Course 2019-2020


NOTICE

The first semester students of M. Sc Physics are hereby informed that the Bridge course test will be conducted on 22nd of August 2019 at 11.00 am.

All the students have to attend the test without fail


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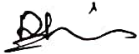
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QUESTION PAPER

2M X 10q = 20Marks

Answer any ten of the following questions

1. Define center of mass.
2. Define moment of inertia.
3. What are the three modulus of elasticity?
4. What is the importance of Young's modulus?
5. What is meant by vibration?
6. What are the difference between waves and oscillations?
7. What are the types of oscillations?
8. What are the uses of semiconductors?
9. Define Ionization energy.
10. What are the limitations of Bohr's model?
11. What are the drawbacks of Rutherford's model?
12. Write the expression for Bohr's radius in Hydrogen atom.



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Bridge Course 2019-2020

BRIDGE COURSE MARKS LIST 2019-20

Class: M.Sc- I sem

Sub: Physics

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

Rekha

Coordinator
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