

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 2018-19)

REPORT

2018-19



**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: 09-Aug-2018

REF. / ಸಂಖ್ಯೆ : _____

Department of PG Studies in Physics

Bridge Course 2018-2019

NOTICE

Notice to inform about conducting Bridge course for Academic year 2018-2019 for M. Sc I semester Physics students. Classes for Bridge course will commence from 13th of August 2018 to 20th of August 2018. All the M. Sc I sem students have to attend the classes without fail.

Deviya
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
Bijapur.

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

BRIDGE COURSE TIME-TABLE 2018- 2019

Time	13/8/2018	14/8/2018	16/8/2018	17/8/2018	18/8/2018	20/8/2018
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)

Devin

Coordinator

Co-ordinator

Department of PG Studies in Physics
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VIJAYAPUR



IQAC Coordinator

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Vijayapur.



Principal

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

STUDENTS LIST

Sl. No	Student Name	Roll. No
1	Shilpa Megadi	
2	Arpita Patil	1
3	Swati V Palbhavi	2
4	Koli Basavraj Malappa	3
5	Pragathi Kulakarni	4
6	Malleshi Hullur	5
7	Shridevi Amate	6
8	Shweta Biradar	7
9	Iswari Kori	8
10	Hrishikesh Dixit	9
11	Sakkubai Balagannavar	10
12	Shrigouri Kokkalaki	11
13	Manjula Bashetti	12
14	Amrutha Shivanand Bhogi	13
15	Mahantesh Godekar	14
16	Kiran patil	15
17	Shalini Sajjan	16
18	Rekha Patil	17


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Vijayapur.


Principal,
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Bijapur.


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

Attendance list of students

Class: M.Sc- 1st semester

Staff: Dr. Girija M. Nimbal

Subject: Physics

Date: 16/8/2018 & 19/8/2018

Topic: Semiconductor Electronics, Atomic and Nuclear Physics

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Shegeeli	6		11		16	
2	Roshan	7	Shate	12	Kulkarni	17	S.B. Sajjan
3	Anil	8	Spiradar	13	MS	18	
4		9		14			
5	Bhaskar	10	Hushare	15	MS		

Staff: Prof. Soumya Sajjan

Date: 18/8/2018 & 22/8/2018

Topic: Classical Mechanics and Mechanical Properties of Solids and Fluids

R. No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Shegeeli	6		11		16	
2	Roshan	7	Shate	12	Kulkarni	17	S.B. Sajjan
3	Anil	8	Spiradar	13	MS	18	
4		9		14			
5	Bhaskar	10	Hushare	15	MS		

Staff: Prof. S.S. Biradar

Date: 17/8/2018 & 21/8/2018

Topic: Electricity and Magnetism, Electromagnetic Signal

R. No.	Signature	R.No.	Signature	R. No.	Signature	R. No.	Signature
1	Shegeeli	6		11		16	
2	Roshan	7	Shate	12	Kulkarni	17	S.B. Sajjan
3	Anil	8	Spiradar	13	MS	18	
4		9		14			
5	Bhaskar	10	Hushare	15	MS		

Staff: Prof. S. Jiranakalgi

Date: 19/8/2018 & 22/8/2018

Topic: Waves and Oscillations

R.No.	Signature	R. No.	Signature	R. No.	Signature	R. No.	Signature
1	Shegeeli	6		11		16	
2	Roshan	7	Shate	12	Kulkarni	17	S.B. Sajjan
3	Anil	8	Spiradar	13	MS	18	
4		9		14			
5	Bhaskar	10	Hushare	15	MS		

Co-ordinator

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Principal

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REF / PÅÅ*AIÅPÅ :

Date / ÅÅPÅ: 20-Aug-2018

Department of PG Studies in Physics

Bridge Course 2018-2019

NOTICE

The first semester students of M. Sc Physics are here by informed that the Bridge course test will be conducted on 23rd of August 2018 at 11.00 am.

All the students have to attend the test without fail

**Coordinator
Co-ordinator**

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IQAC, Co-ordinator**

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Principal

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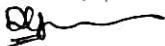
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Department of PG Studies in PHYSICS
Bridge Course 2018-2019

QUESTION PAPER

2M X 10q = 20Marks

Answer any ten of the following questions

1. What is meant by Fermi level?
2. Define surface tension.
3. Define rectilinear motion with example.
4. Define viscosity.
5. What is Coulomb's law?
6. Define Oscillation.
7. What is meant by resonance?
8. What do you mean by p-n junction?
9. Define a semiconductor diode.
10. State any two basic properties of nucleus.
11. What are the basic assumptions of Rutherford atomic model?
12. What is the function of semiconductor diodes?



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Department of PG Studies in PHYSICS
Bridge Course 2018-2019

BRIDGE COURSE MARKS LIST 2018-19

Class: M.Sc- I sem

Sub: Physics

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

Deputy
Coordinator
Co-ordinator

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[Signature]
IQAC Coordinator

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