



Marudhar Kesari Jain College For Women, Vaniyambadi

PG & Research Department of Physics

Bridge Course Syllabus 2022-2023

Course Name: Essential in Physics



Course Objective

- To Determine Difference Between Solids, Liquids & Gases.
- To Learn The Concept Of Work, Energy And Collisions.
- To Know The Principles Current And Thermo Electricity.
- To Determine The Basic Digital System And Its Applications.
- To Learn The Concept Of Thermodynamics.

Unit – 1: Properties of Matter & Mechanics

Pressure – Volume - Hooke's Law - Surface Tension – Compression-Newton's Laws of Motion - Impulse, Friction and Inertia - Conservation of Energy - Conservation of Momentum.

Unit – 2: Thermal Physics

Zeroth and First Law of Thermodynamics - Second Law of Thermodynamics – Entropy - Kinetic Theory of Gases.

Unit – 3: Digital Systems and Applications

Integrated Circuits - Digital Circuits - Boolean Algebra - Arithmetic Circuits.

Unit – 4: Electricity and Magnetism and Electronics

Electrostatics – Magnetism - Electromagnetic Induction – Diode - Analog and Digital Meters - Screw Gauge, Vernier Calliper – Transistors - Logic Gates.

Unit – 5: Career Perspectives

Academic Researcher – Astronomer - Clinical Scientist - Medical Physics – Geophysicist - Higher Education Teacher – Nanotechnologist - Radiation Protection Practitioner - Secondary School Teacher - Research Scientist – Meteorologist.

Course outcome

The students would gain substantial knowledge in various branches of physics like Electronics, Quantum, classical, statistical mechanics, condensed matter physics, astrophysics, particle, nuclear and high energy Physics.

Teaching Methodology

- Power Point
- OHP
- Models

Subject Allocation

S. NO	UNIT	FACULTY NAME
1	Properties of Matter & Mechanics	Ms. M. Astalakshmi
2	Thermal Physics	Ms. B. Prabavathi
3	Digital Systems and Applications	Ms. M. Anchana
4	Electricity and Magnetism and Electronics	Dr. C. Pavithra
5	Career Perspectives	Ms. P. Praveena

P.H.
HOD 8/7/22

P.H.
PRINCIPAL

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Marudhar Kesari Jain College
for Women
Vanlyambadi - 635 751.



MARUDHAR KESARI JAIN COLLEGE FOR WOMEN, VANIYAMBADI



PG& RESEARCH DEPARTMENT OF PHYSICS

BRIDGE COURSE 2022- 2023



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23/06/2023

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23/06/23

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Marudhar Kesari Jain College for Women, Vaniyambadi
Bridge Course Attendance



Department : PGT AND RESEARCH DEPARTMENT OF PHYSICS

Academic Year : 2022-2023

Class: I B.S.C PHYSICS

Course Name: ESSENTIAL in PHYSICS

S.No	Name of the Student	Signature					
		25-7-22	26-7-22	27-7-22	28-7-22	29-7-22	30-7-22
1	AARTHI S	S.Aarthi	S.Aarthi	S.Aarthi	S.Aarthi	S.Aarthi	S.Aarthi
2	AGALYA S	S.Agalya	S.Agalya	S.Agalya	S.Agalya	S.Agalya	S.Agalya
3	AGALYA SHREE R	P.AS	P.AS	P.AS	P.AS	P.AS	P.AS
4	ARUNA K	Aruna	Aruna	Aruna	Aruna	Aruna	Aruna
5	ASHA K	K.Asha	K.Asha	K.Asha	K.Asha	K.Asha	K.Asha
6	DEEPTHIRANJANI P	P.Deepthi Ranjani	P.Deepthi Ranjani	P.Deepthi Ranjani	P.Deepthi Ranjani	P.Deepthi Ranjani	P.Deepthi Ranjani
7	DEVIPRIYA A	A.Devi Priya	A.Devi Priya	A.Devi Priya	A.Devi Priya	A.Devi Priya	A.Devi Priya
8	DHANUSHIYA D	Dhanushya D	Dhanushya D	Dhanushya D	Dhanushya D	Dhanushya D	Dhanushya D
9	DHARSHINI V	Dharshini V	Dharshini V	Dharshini V	Dharshini V	Dharshini V	Dharshini V
10	GOKULA PRIYA R	Gokula Priya R	Gokula Priya R	Gokula Priya R	Gokula Priya R	Gokula Priya R	Gokula Priya R
11	GOMATHI S	S.Gomathi	S.Gomathi	S.Gomathi	S.Gomathi	S.Gomathi	S.Gomathi
12	JANATHUL FIRDOUS A	J.Firdous	J.Firdous	J.Firdous	J.Firdous	J.Firdous	J.Firdous
13	KABURAMMAL J	J.Kaburammal	J.Kaburammal	J.Kaburammal	J.Kaburammal	J.Kaburammal	J.Kaburammal
14	KALAISELVI S	S.Kalaiselvi	S.Kalaiselvi	S.Kalaiselvi	S.Kalaiselvi	S.Kalaiselvi	S.Kalaiselvi
15	KANIMOZHI V	Kani V	Kani V	Kani V	Kani V	Kani V	Kani V
16	KEERTHANA N	K.N	K.N	K.N	K.N	K.N	K.N
17	MALINI S	S.Malini	S.Malini	S.Malini	S.Malini	S.Malini	S.Malini
18	MONISHA V	M.Monisha	M.Monisha	M.Monisha	M.Monisha	M.Monisha	M.Monisha

19	MYVIZHI R	R. Myvizhi	R. Myvizhi	R. Myvizhi	R. Myvizhi	R. Myvizhi	R. Myvizhi
20	NANDHINI P	Nandhini P	Nandhini P	Nandhini P	Nandhini P	Nandhini P	Nandhini P
21	NITHIYA S	S. Nithya	S. Nithya	S. Nithya	S. Nithya	S. Nithya	S. Nithya
22	PAVITHRAA C	C. Pavithraa	C. Pavithraa	C. Pavithraa	C. Pavithraa	C. Pavithraa	C. Pavithraa
23	PRABHAVATHI R	R. Prabhavathi	R. Prabhavathi	R. Prabhavathi	R. Prabhavathi	R. Prabhavathi	R. Prabhavathi
24	PREETHI P	P. Preethi	P. Preethi	P. Preethi	P. Preethi	P. Preethi	P. Preethi
25	PRIYADHARSHINI S	S. Priyadharshini	S. Priyadharshini	S. Priyadharshini	S. Priyadharshini	S. Priyadharshini	S. Priyadharshini
26	PRIYA V	Priya V	Priya V	Priya V	Priya V	Priya V	Priya V
27	RAMYA S	S. Ramya	S. Ramya	S. Ramya	S. Ramya	S. Ramya	S. Ramya
28	RAMYA S	Ramya S	Ramya S	Ramya S	Ramya S	Ramya S	Ramya S
29	RASIKA M	M. Rasika	M. Rasika	M. Rasika	M. Rasika	M. Rasika	M. Rasika
30	SANDHIYA A	Sandhya A	Sandhya A	Sandhya A	Sandhya A	Sandhya A	Sandhya A
31	SANGAVI N	S. N. Sangavi	S. N. Sangavi	S. N. Sangavi	S. N. Sangavi	S. N. Sangavi	S. N. Sangavi
32	SHARMILA C	C. Sharmila	C. Sharmila	C. Sharmila	C. Sharmila	C. Sharmila	C. Sharmila
33	SRIDEVI V	V. Sridevi	V. Sridevi	V. Sridevi	V. Sridevi	V. Sridevi	V. Sridevi
34	SUMAN R	R. Suman	R. Suman	R. Suman	R. Suman	R. Suman	R. Suman
35	SWETHA M	M. Swetha	M. Swetha	M. Swetha	M. Swetha	M. Swetha	M. Swetha
36	SWETHA S	S. Swetha	S. Swetha	S. Swetha	S. Swetha	S. Swetha	S. Swetha
37	TAMILARASI H	H. Tamilarasi	H. Tamilarasi	H. Tamilarasi	H. Tamilarasi	H. Tamilarasi	H. Tamilarasi
38	TAMILARASI M	M. Tamilarasi	M. Tamilarasi	M. Tamilarasi	M. Tamilarasi	M. Tamilarasi	M. Tamilarasi
39	THENMOZHI M	M. Thenmozhi	M. Thenmozhi	M. Thenmozhi	M. Thenmozhi	M. Thenmozhi	M. Thenmozhi

H. Aptal
Class Incharge

HOD

Principal

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Vandavambadi - 635 754



Marudhar Kesari Jain College for Women, Vaniyambadi
Bridge Course Feedback



Department : PDI AND RESEARCH DEPARTMENT OF PHYSICS
Academic Year : 2022-2023
Class : I. B.SC PHYSICS
Course Name : ESSENTIAL IN PHYSICS

S.No	Name of the Student	Feedback
1	R. Myvizhi	I like this Bridge course. It is helpful for us.
2	S. Agalya	It is useful to gain General knowledge.
3	J. Kabulammal	By the help of bridge course, I learnt many things.
4	A. Devipriya	I love it. I learn how to overcome my fear in front of all person. It is useful.
5	S. Ramya.	I gain some general knowledge. It improves my skill.
6	S. Nithiya	I gain some knowledge.
7	A. Jaganthi Pious	In the bridge course I learnt many things. It is easy to learn.
8	R. Suman	I learn the Good News in Bridge course.
9	K. Asha	It is useful to know the basics of subject.
10	S. Kalaiselvi	I learn many things about Basics and how to overcome in my fear in front of all.

M. Athal
Class Incharge

[Signature]
HOD

[Signature]
Principal
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