



**Marudhar Kesari Jain College for Women, Vaniyambadi**



**PG & Research Department of Physics**

**Bridge Course Syllabus 2023-2024**

**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 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**

- To Study the basic properties and production by different methods.
- Thermal physics deals with various concepts related to heat and temperature.
- Students would gain enough knowledge to digital circuits
- To express the formation and properties of electricity.
- Students will understood work tasks, settings, salary, jobs

  
HOD 26/6/23

  
PRINCIPAL



# MARUDHAR KESARI JAIN COLLEGE FOR WOMEN, VANIYAMBADI



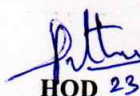
## PG & RESEARCH DEPARTMENT OF PHYSICS

CLASS: I B.Sc PHY

DAY / HR	I	II	III	IV	V	VI
I	Major (Ms. P.Praveena)	Communicative English	Sports	Communicative English	Major (Dr. C.Pavithra)	Nutrition Value
II	Major (Ms. M. Astalakshmi)	Communicative English	Sports	Communicative English	Major (Ms. P.Praveena)	Stress Management
III	Major (Dr. C.Pavithra)	Communicative English	Sports	Communicative English	Major (Ms. P.Praveena)	Counselling
IV	Major (Dr. C.Pavithra)	Communicative English	Sports	Communicative English	Major (Dr. C.Pavithra)	Personality Development
V	Major (Ms. P.Praveena)	Communicative English	Sports	Communicative English	Major (Ms. M. Astalakshmi)	Stress Management

Staff Handled by

- UNIT I - Ms. P. Praveena
- UNIT II - Ms. M. Astalakshmi
- UNIT III - Dr. C. Pavithra
- UNIT IV - Dr. C. Pavithra
- UNIT V - Ms. P. Praveena

  
HOD 23/06/2023

  
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Vanivambadi - 635 751





MARUDHAR KESARI JAIN COLLEGE FOR WOMEN, VANIAMBADI



PG & RESEARCH DEPARTMENT OF PHYSICS

BRIDGE COURSE 2023- 2024



Chinnaveppambattu, Tamil Nadu, India

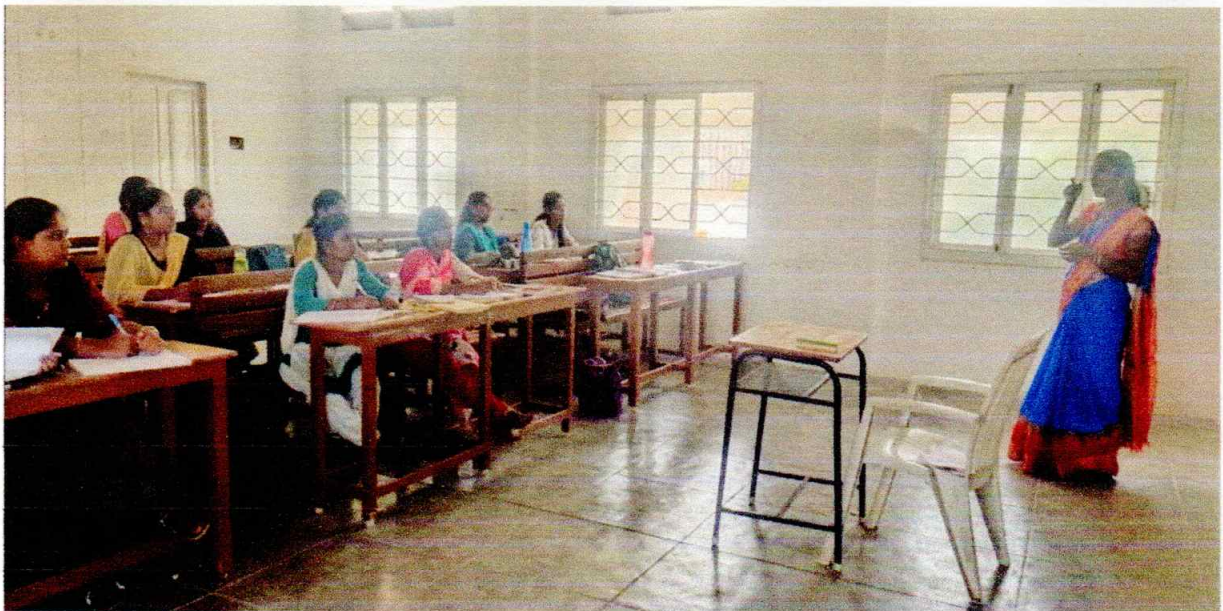
Unnamed Road, Chinnaveppambattu, Tamil Nadu 635851, India

Lat 12.625474°

Long 78.613214°

03/07/23 11:31 AM GMT +05:30

Google



*Principals*  
23/6/2023

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23/6/2023

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Vaniambadi - 635 751





**Marudhar Kesari Jain College for Women, Vaniyambadi**  
**Bridge Course Attendance**



Department : Pot & Research Dept. of Physics.  
Academic Year :2023-2024  
Class: I. B.Sc. Physics.  
Course Name: Essential in physics

S.No	Name of the Student	Signature					
		03.07.2023	04.07.2023	05.07.2023	06.07.2023	07.07.2023	08.07.2023
1	ABHINITHI P B	Abi	Abi	Abi	Abi	Abi	Abi
2	ANBUKKARASI A	Anbu	Anbu	Anbu	Anbu	Anbu	Anbu
3	ANITHA M	M.Anitha	M.Anitha	M.Anitha	M.Anitha	M.Anitha	M.Anitha
4	DEEPA A	A.Deepa	A.Deepa	A.Deepa	A.Deepa	A.Deepa	A.Deepa
5	DIVYA BHARATHI P	P.Dhharathi	P.Dhharathi	P.Dhharathi	P.Dhharathi	P.Dhharathi	P.Dhharathi
6	ENISHA M	Enisha	Enisha	Enisha	Enisha	Enisha	Enisha
7	GOPIKA K	K.Gopika	K.Gopika	K.Gopika	K.Gopika	K.Gopika	K.Gopika
8	HARINI J	Harini	Harini	Harini	Harini	Harini	Harini
9	HARINI K V	Harini	Harini	Harini	Harini	Harini	Harini
10	JANANI K	K.Janani	K.Janani	K.Janani	K.Janani	K.Janani	K.Janani
11	KANIGA H	a	H.kij	H.kij	H.kij	H.kij	H.kij
12	KANISHKA SRI D	D.Kanishka	D.Kanishka	D.Kanishka	D.Kanishka	D.Kanishka	D.Kanishka
13	KARTHIKA R	R.Karthika	R.Karthika	R.Karthika	R.Karthika	R.Karthika	R.Karthika
14	NAVITHA P	P.Navitha	Navitha	navi	navi	navi	navi
15	PAVITHRA L	L.Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra
16	POOVIZHI K	K.Poovizhi	P.Poovizhi	K.Poo	K.Poo	K.Poo	K.Poo
17	RANJANI R	R.Ranjani	R.Ranjani	P.Ranjani	P.Ranjani	R.Ranjani	Ranjani
18	SATHIYANAYAGI R	R.Sathiyani	Sathiyani	Sathiyani	Sathiyani	a	a
19	SOUNDHARIYA M	M.Soundharya	M.Soundharya	M.Soundharya	M.Soundharya	M.Soundharya	M.Soundharya
20	SUMITHRA S	S.Sumithra	Sumi.S	Sumi.S	Sumi.S	Sumi.S	Sumi.S
21	SWATHI R	R.Swati	R.Swati	R.Swati	R.Swati	R.Swati	R.Swati
22	TRISHA D	D.Trisha	D.Trisha	D.Trisha	D.Trisha	D.Trisha	D.Trisha
23	UMA N	N.Uma	N.Uma	N.Uma	N.Uma	N.Uma	N.Uma
24	VANMATHI P	P.Vanathi	P.Vanathi	P.Vanathi	P.Vanathi	P.Vanathi	P.Vanathi

M. S. P  
Class Incharge

HOD 8/7/23

Principal  
PRINCIPAL  
Marudhar Kesari Jain College  
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Vaniyambadi - 635 751





Marudhar Kesari Jain College for Women, Vaniyambadi  
Bridge Course Feedback



Department : PGT & Research Dept. of physics  
Academic Year : 2023-2024  
Class : I. B.Sc. physics  
Course Name : Essential in physics

S.No	Name of the Student	Feedback
1	Kanishka Sri. D	Able to understand very well
2	Kaniga . H	Teaching very well
3	Sathiya nayagi. R	Teaching is very good.
4	Pavithra . L	understandable and good
5	Janani . K	very good
6	TRISHA . D	very Good.
7	K.V. HARINI	Great.
8	R. KARTIKA	very Good
9	K. TIPIKA	very Good
10	P. VANMATHI	excellent and nice teaching.

M. S. P  
Class Incharge

  
HOD

  
Principal  
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