



**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS),
VANIYAMBADI**

PG & RESEARCH DEPARTMENT OF PHYSICS

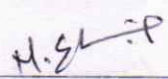
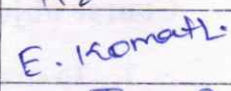
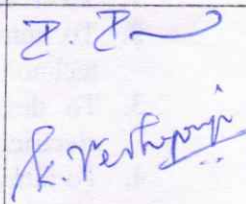
BRIDGE COURSE 2025-2026

COURSE NAME: FOUNDATIONS OF PHYSICS

Course objectives

1. To create awareness about career opportunities and higher education pathways in Physics
2. To introduce the basic principles of Physics and their applications in daily life, technology, and industry.
3. To develop a strong conceptual understanding of core topics such as mechanics, electricity, magnetism, atomic structure, and electronics.
4. To familiarize students with basic laboratory instruments and techniques used in Physics experiments.
5. To provide historical and theoretical context for key discoveries in atomic theory and semiconductor Physics.
6. To introduce students to emerging fields such as satellite communication and processor programming.

Section	Topic	Pedagogy Activity	Staff incharge	Signature
1	Curriculum structure of the degree programme. Career opportunities & Higher education in Physics	Presentation	Dr. C. Pavithra	
2	Introduction to Physics- Scope, branches, relevance	Chalk and Talk	Ms. P. Praveena	
3	Basic Laws in Physics and its Applications	Video Lecture	Dr. M. Elakia	
4	History of Atomic Structure- Atom and Molecules (Electron, Proton and Neutron) Formation of Nucleus – Structure and Rules	Presentation	Dr. K. Vedhapriya	
5	Electricity – Current, Voltage, Power, - basic wire connection and its rules – Power production – Power sources in India	Presentation - Chalk and Talk	Ms. E. Komathi	
6	Magnetism – History of magnet – properties of magnet – Applications of magnet	Presentation - Chalk and Talk	Dr. V Sabari	

7	Laboratory – Basic instruments and its measurements – Applications – Screw Gauge, Vernier Caliper, Travelling Vernier Microscope, Spectrometer	Laboratory Demo Class	Dr. C. Pavithra	
8	Electronics – Semiconductors, formation of diodes, Transistors - Application of semiconductors	Presentation - Chalk and Talk	Dr. M. Elakia	
9	Laboratory rules- Do's and Don'ts	Laboratory Demo Class	Ms. E. Komathi	
10	Processor – History of Processor – basic programme Communication – Wireless communication – Indian Satellite systems	Presentation - Chalk and Talk	Ms. P. Praveena Dr. K. Vedhapriya	

COURSE OUTCOMES

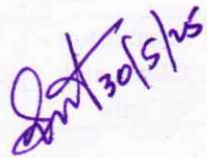
Students will be able to

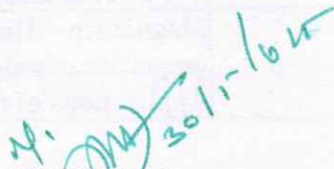
1. Gain the scope and relevance of Physics across various scientific and technological domains.
2. Understand the structure of atoms and molecules, including the formation of the nucleus.
3. Develop the knowledge of electric circuits, wiring systems, and Indian power production methods.
4. Identify and operate basic laboratory instruments with proper safety and measurement techniques with the ethics and safety guidelines.
5. Understand the fundamentals of semiconductors, basics of processors and simple programming concepts and wireless communication systems

Assessment

Quiz/ Multiple choice questions.


HOD


30/5/25


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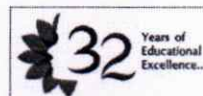


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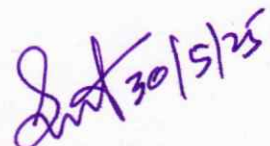
Bridge Course Time Table (2025-2026)

Class: I B.Sc. Physics



DAY /HR	I	II	III	IV	V
I	Motivational Class Dr. Srinivasan	Major (Dr. C. Pavithra)	Communicative English Dr. Srividhya	Major (Ms. P. Praveena)	Major (Dr. M. Elakia)
II	Motivational Class Dr. Merlin Mythili Nelson	Major (Dr. K. Vedhapriya)	Communicative English Dr. Srividhya	Mathematics (Ms. Shenbagavalli)	Sports
III	Communicative English Dr. Srividhya	Mathematics (Ms. Shenbagavalli)	Communicative English Dr. Srividhya	Mathematics (Ms. Shenbagavalli)	Major (Dr. C. Pavithra)
IV	Communicative English Dr. Srividhya	Mathematics (Ms. Shenbagavalli)	Communicative English Dr. Srividhya	Major (Dr. V. Sabari)	Major (Dr. M. Elakia)
V	Communicative English Dr. Srividhya	Major (Ms. E. Komathi)	Communicative English Dr. Srividhya	Mathematics (Ms. Shenbagavalli)	Major (Dr. K. Vedhapriya)


HOD 30/5/2025


DEAN

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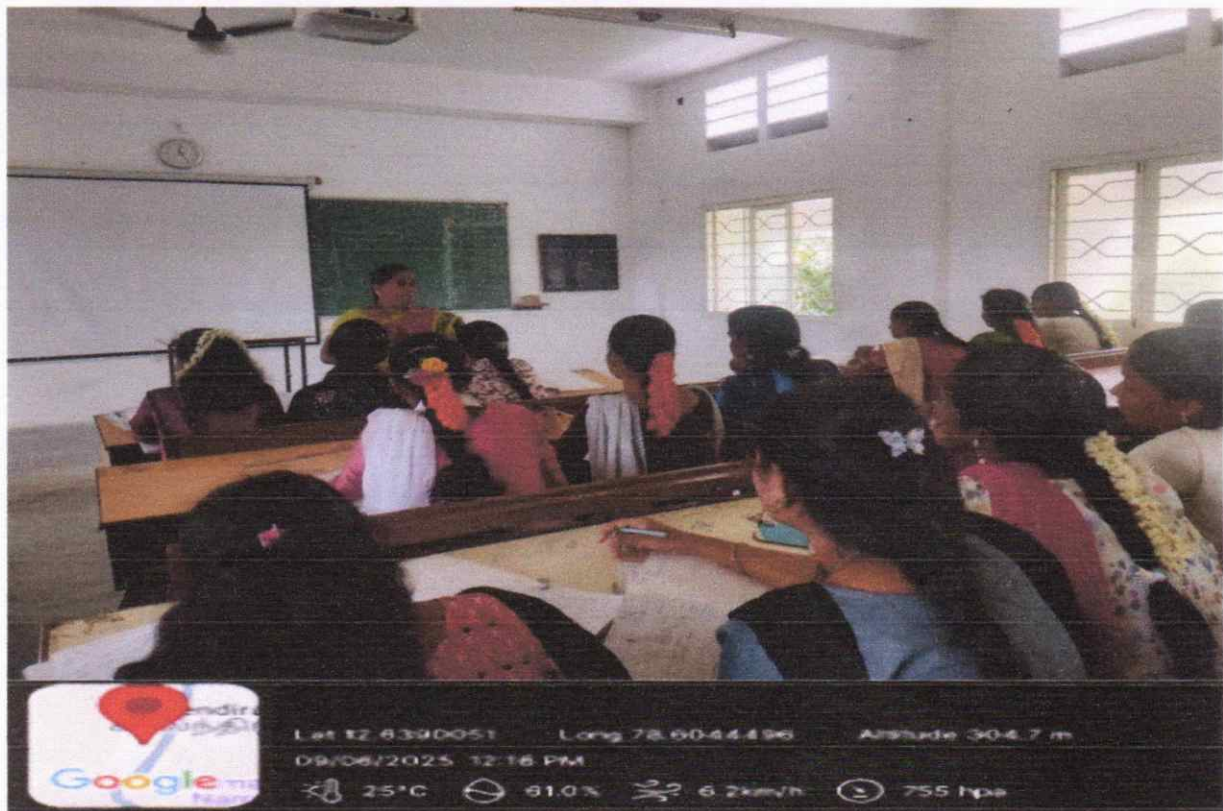
2025-2026

Bridge Course

Foundations of Physics

09.06.2025 – 13.06.2025

Photo



Pilky
HOD 17/6/2025

17/6/25
Dean, School of Physical Science

M. S. S.
Principal
PRINCIPAL

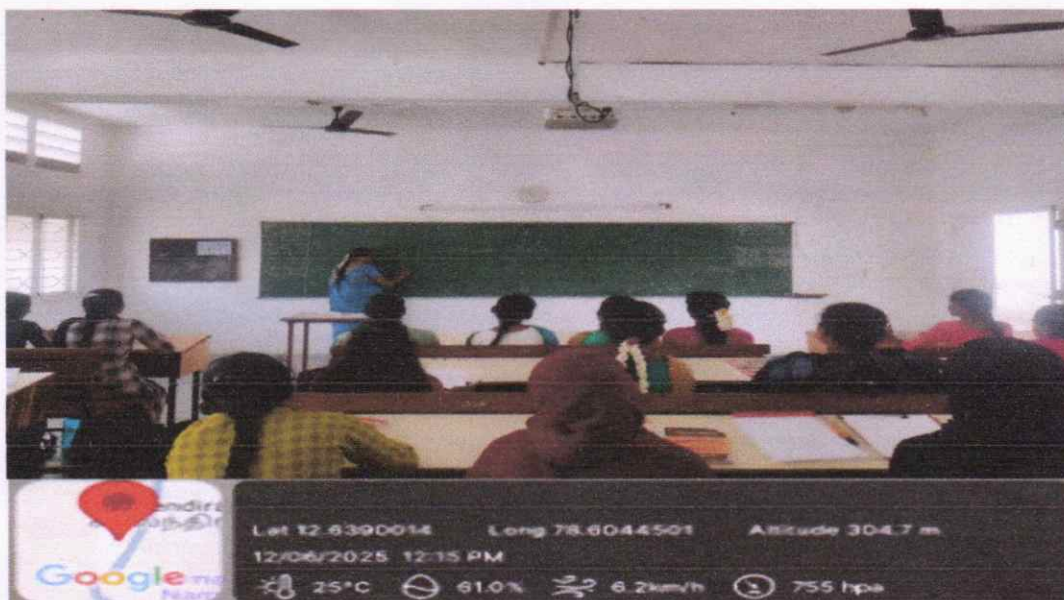
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Pilthy
 HOD 17/6/2025

Sant 17/6/25
 Dean, School of Physical Science

[Signature]
Principal
PRINCIPAL
 Marudhar Kesari Jain College
 for Women (Autonomous)
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 Tirupattur District



P. Jeyaraj
 HOD 17/11/2025

S. Sathya
 Dean, School of Physical Science

M. S. Sathya
 Principal
 Marudhar Kesari Jain College
 for Women (Autonomous)
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 Tirupattur District



Marudhar Kesari Jain College for Women (Autonomous), Vaniyambadi
Bridge Course Attendance

32
Year of
Institution
Established

Department : Physics
Academic Year : 2025-2026
Class : I B.Sc Physics
Course Name : Foundations of Physics

S.NO	Name of the Student	Signature of the Student				
		09.06.25	10.06.25	11.06.25	12.06.25	13.06.25
1	ARCHANA S	Archana	Archana	a	Archana	Archana
2	ANU I	Anu	Anu	Anu	Anu	Anu
3	AVANTHIKA R	Avanthika	Avanthika	Avanthika	Avanthika	Avanthika
4	AZNIYA HANI C S	a	azniya	azniya	azniya	azniya
5	DURGA V	Durg	Durg	Durg	Durg	Durg
6	GIVITHA R	Givitha	Givitha	Givitha	Givitha	Givitha
7	HANISHA S	Hanisha	Hanisha	Hanisha	Hanisha	Hanisha
8	HARSHINI V	Harshini	Harshini	Harshini	Harshini	Harshini
9	KANISHKA K	Kanishka	Kanishka	Kanishka	Kanishka	a
10	KAVIPRIYA E	E.Kj	E.Kj	E.Kj	E.Kj	E.Kj
11	KEERTHIKA S	S. Keerthika	S. Keerthika	S. Keerthika	S. Keerthika	S. Keerthika
12	MANISHA M	M. Manisha	M. Manisha	M. Manisha	M. Manisha	M. Manisha
13	MANISHA N	N. Manisha	N. Manisha	N. Manisha	N. Manisha	N. Manisha
14	PAVITHRA G	Pavithra	Pavithra	Pavithra	Pavithra	a
15	PRABAVATHI R	Prabavathi	Prabavathi	Prabavathi	Prabavathi	Prabavathi
16	PRIYADHARSHINI B	Priyadharshini	Priyadharshini	Priyadharshini	Priyadharshini	Priyadharshini
17	PRIYADHARSHINI C	Priya	Priya	Priya	Priya	Priya
18	SANDHIYA V	V. Sandhya	V. Sandhya	V. Sandhya	V. Sandhya	V. Sandhya
19	SHANMUGI T	Shanmugi	Shanmugi	Shanmugi	Shanmugi	Shanmugi
20	SHRIYA A	Shriya A	Shriya A	Shriya A	Shriya A	Shriya A
21	SNEHA R	R. Sneha	R. Sneha	R. Sneha	R. Sneha	R. Sneha
22	SUBITHRA C	C. Subithra	C. Subithra	C. Subithra	C. Subithra	a
23	VARSHALI S	a	a	Varshi	Varshi	Varshi
24	VIGNESHWARI V	V. Vigneshwari	V. Vigneshwari	V. Vigneshwari	V. Vigneshwari	V. Vigneshwari
25	YASHFA SIKANDER M L	a	Yashfa	Yashfa	Yashfa	Yashfa

Class Incharge

HOD

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Tirupattur District



Department : Physics

Academic Year : 2025-2026

Class : I B.Sc Physics

Course Name : Foundations of Physics

S. No	Name of the Student	Feedback
1	ARCHANA S	I enjoyed the bridge course I come to learn many new things about physics
2	ANU I	I really liked bridge courses and learned a lot of things thanks for this course
3	AVANTHIKA R	In this Bridge Course I learned about physics and Coara Parity and enjoyed to too
4	AZNIYA HANI C S	Through bridge Course I was able to recall those concepts which I've studied till 12th Standard
5	DURGA V	In this Bridge Course I learned about physics and Coara Parity and enjoyed to too
6	GIVITHA R	In this Bridge course I learned about physics and Coara Parity and enjoyed it too.
7	HANISHA S	Bridge course was really nice and fine. This course is helpful for my future and I learn many things.
8	HARSHINI V	Bridge course give sufficient time to the students it was very useful to learn about the basics of physics
9	KANISHKA K	Bridge course is improving knowledge it was very interesting I enjoyed in class.
10	KAVIPRIYA E	The bridge course was nice and refreshing to all of us.
11	KEERTHIKA S	I understand basic concept of physics through this concept. It was interesting.
12	MANISHA M	The course was good and understandable like explaining each topic with real-life examples.
13	MANISHA N	The bridge course was nice and able to understand each topics clearly and we can recall it
14	PAVITHRA G	The bridge was nice and refreshing to all of us
15	PRABAVATHI R	The bridge course was good there were interactive session with engaging
16	PRIYADHARSHINI B	It improved understanding in basic level physics
17	PRIYADHARSHINI C	The bridge course was very informative and I enjoyed very much.

S. No	Name of the Student	Feedback
18	SANDHIYA V	I don't know about physics scope this bridge course helps me very well about.
19	SHANMUGI T	Bridge course was very helpful and I gained prior knowledge about the department and course objectives.
20	SHRIYA A	It helped me in the way for the last year to connect with college.
21	SNEHA R	The course was good and understandable like explaining each topic with real-life examples.
22	SUBITHRA C	I really liked bridge course and learned a lot. Thanks for this beneficial interactive classes.
23	VARSHALI S	I enjoyed the bridge course. I came to learn many new things about physics.
24	VIGNESHWARI V	The bridge course was really nice and good. I learn more things in this course.
25	YASHFA SIKANDER M L	It helped me for revising all the concepts from Class 12.

E. Komath L.
13/6/25
Class Incharge

filthy
HOD 13/6/25

13/6/25
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