

Add-on Course on

TIMELINE AND EVOLUTION OF PHYSICS:

From Ancient to the Modern

A course on how modern physics came to be what it is today, and how it continues to grow more and more fascinating....



Principles

What are the key principles that decode the secrets of the nature...



Experiments

What were those milestone experiments that threw light over the unknown realms of nature...

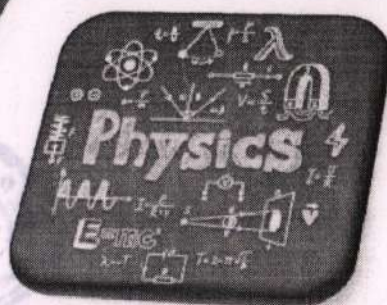
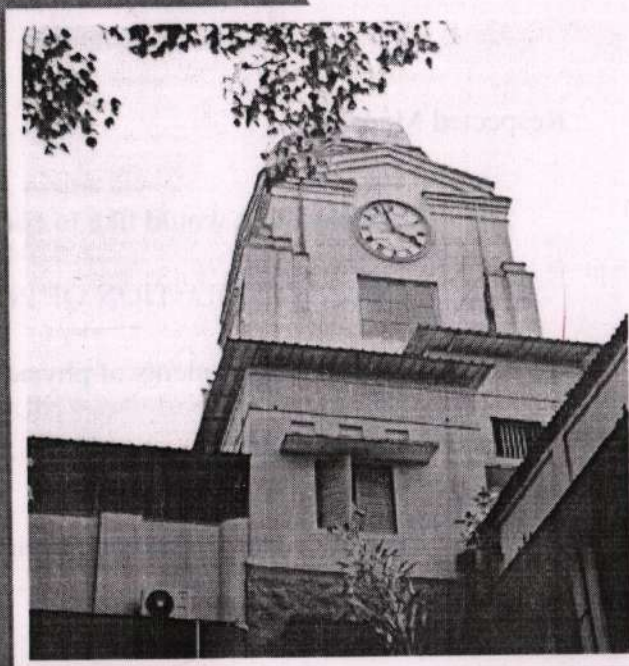


People

Who were those great minds who played key roles in paving the milestones, and what were the paths they took...



MAHATMA GANDHI COLLEGE
DEPARTMENT OF
PHYSICS



Enrollment List Of students 2021 - 22

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120	23019118049	VAISHNAVI PRASAD

Syllabus

(30 Hours)

TIMELINE AND EVOLUTION OF PHYSICS : From Ancient to the Modern

PRINCIPLES

Aristotelian ideas - Archimedes principle - Heliocentrism - Laws of motion - Snell's law - Coulomb's law - Kinetic theory of gas - Ohm's law - Laws of electromagnetism - Laws of Thermodynamics - Radioactivity - Theory of relativity: special and general - Planck's quantum hypothesis - Uncertainty principle - Hubble's law - Big bang theory - Standard Model - Quantum gravity

EXPERIMENTS

Newton's discovery of spectrum - Cavendish's weighing of Earth - Joule's demonstration of conservation of energy - Foucault pendulum - Young's double-slit experiment - Discovery of x-rays - Michelson-Morley experiment - Thomson's experiment - Millikan's oil drop experiment - Stern-Gerlach experiment - Rutherford gold foil experiment - Rosalind Franklin's DNA radiograph - Large Hadron Collider - LIGO experiment

PEOPLE

Anaximander - Archimedes - Galileo Galilei - Isaac Newton - Michael Faraday - James Clark Maxwell - Max Planck - Ernest Rutherford - Niels Bohr - Albert Einstein - Erwin Schrodinger - Louis de Broglie - Werner Heisenberg - Paul Dirac - Richard Feynman - S. Chandrasekhar - S N Bose - C V Raman

References

Physics in 50 Milestone moments by James Lees (Quad Books)

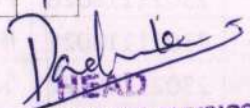
Science: A history in 100 experiments by John Gribbin and Mary Gribbin (William Collins)

Attendance

Sl No:	Candidate Code	Name of the Candidate	Dec 21		Jan 22			Feb	
			7	15	4	10	27	28	8
1	23020118001	ABHIRAMI R.SEKHAR	1	1	1	1	1	1	1
2	23020118002	ABHISHEK G S	1	1	1	1	a	a	1
3	23020118003	ADITHYAN. S	1	1	1	a	1	1	1
4	23020118004	AJAY S	1	1	1	1	1	1	1
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6	23020118006	AMAL. A. NAIR	1	a	1	1	1	1	1
7	23020118007	ANJAI VINOD	1	1	1	1	1	1	1
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 HEAD
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Test Paper

1. The property of object at rest to remain at rest is known as
 - a) Inertness
 - b) Inertia
 - c) Resistance
 - d) sluggishness
2. Coulomb's Law is valid for _____
 - a) Only point charge
 - b) For both point charge and distributed charge
 - c) Only distributed charges
 - d) Neither distributed nor point charge
3. What is thermodynamics?
 - a) study of the relationship between heat and other forms of energy
 - b) study of the conversion of chemical energy to other forms of energy
 - c) study of the relationship between mechanical energy to other forms of energy
 - d) study of the conversion of mechanical energy to other forms of energy
4. In Young's Double Slit Experiment, if instead of monochromatic light white light is used, what would be the observation?
 - a) The pattern will not be visible
 - b) The shape of the pattern will change from hyperbolic to circular
 - c) Colored fringes will be observed with a white bright fringe at the center
 - d) The bright and dark fringes will change position
5. According to the Big Bang theory, the universe has expanded from
 - a) very high-density and low-temperature state
 - b) very high-density and high-temperature state
 - c) very low-density and high-temperature state
6. What did Rutherford conclude from his gold foil experiment?

- a) Alpha particles are much smaller than gold atoms.
- b) Alpha-particles are doubly-charged helium ions.
- c) Radius of the nucleus is about 10^5 times less than the radius of the atom.
- d) Most of the Alpha-particles passed through the gold foil.

7. What are gravitational waves?

- a) Faint ripples in space time
- b) Fourth dimension which is hard to fathom
- c) Collision which sends ripples across the universe
- d) Both a and b

8. What is the uncertainty principle proposed by Werner Heisenberg?

- a) The principle that states that the position and velocity of a particle cannot be measured simultaneously with infinite precision
- b) The principle that states that the energy and time of a particle cannot be measured simultaneously with infinite precision
- c) The principle that states that the mass and charge of a particle cannot be measured simultaneously with infinite precision
- d) The principle that states that the temperature and pressure of a particle cannot be measured simultaneously with infinite precision

9. The Snell's law can be derived from which type of incidence?

- a) Incidence angle
- b) Reflected angle
- c) Refracted angle
- d) Oblique incidence

10. According to Planck's quantum theory, what is the smallest unit of energy that can be emitted or absorbed by an atom?

- a) Photon
- b) Electron
- c) Proton
- d) Neutron

Test Paper Marks

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Abhirami

Abhis

Adar

Ajay

Akshaya

Amal

Anjai

Anjana

Anoop

Aparna

Ardra

Arya

Devanarayana

GG Krishnan

Karthika

Lekshmi

Mujeeb

Nandana

Nikitha

Pallavi

Pranav

Remya

Renjith

Rohith

Roopa

Sooraj

Visakh

Visakh

Abhi

Abhirami

Abhishek

Abhishek

Adhwaith

Akshay

Anand

Anika

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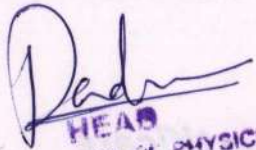
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84	23021118027	ABHINAV.V.S	17	Abhinav
85	23021118028	ABIN .A.S.	15	Abin
86	23021118029	ADITHYA RAJU	14	Adithya
87	23021118030	AKASH S K	14	Akash
88	23021118031	AKSHAY JOSHUA	15	Akshay
89	23021118035	ARJUN DEV. G	16	Arjun Dev
90	23021118036	ASWIN DAS S G	16	Aswin Das
91	23021118037	ASWIN S M	17	Aswin S M
92	23021118038	GAUTHAM S NAIR	18	Gautham
93	23021118039	GOKUL B S	17	Gokul B S
94	23021118040	GOPIKA L	18	Gopika
95	23021118041	KARTHIKA .B.A	19	Karthika
96	23021118042	KRISHNAJA. M	19	Krishna
97	23021118043	MEGHNA PRAMOD	20	Meghna
98	23021118044	NIVEDA N V	20	Niveda
99	23021118045	SNEHA S	20	Sneha S
100	23021118046	SRAVAN S P	19	Sravan S P
101	23021118047	SRUTHI .S	18	Sruthi S
102	23021118048	VISHNU B A	19	Vishnu B A
103	23021118049	ATHUL VIJAY V S	18	Athul Vijay V S
104	23021118050	BEENA.P	18	Beena P
105	23021118051	MEKHA .U	19	Mekha U
106	23021118052	RIJU. B.	19	Riju B
107	23021118053	SAJITH.S	17	Sajith S
108	23021118054	VISHNU S	17	Vishnu S
109	23019118038	ASWANTH V S	15	Aswath V S
110	23019118039	ASWIN DEV J	16	Aswin Dev J
111	23019118040	DILNA DAMODARAN	16	Dilna Damodaran
112	23019118041	GOVIND C	14	Govind C
113	23019118042	HARIGOVIND J R	18	Harigovind J R
114	23019118043	HARITHA L H	18	Haritha L H
115	23019118044	JAGAN G PILLAI	19	Jagan G Pillai
116	23019118045	MARIA SEBASTIAN	19	Maria Sebastian
117	23019118046	NIKHITHA A K	20	Nikhitha A K
118	23019118047	S BIDHU BHOOSHAN	20	S Bidhu Bhooshan
119	23019118048	UDAYALAL R	18	Udayalal R
120	23019118049	VAISHNAVI PRASAD	14	Vaishnavi Prasad


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35	23020118035	ANAND P NAIR	✓			
36	23020118036	ANIKA M S	✓			
37	23020118037	ANOOP A S	✓			
38	23020118038	ARATHY. L .S		✓		
39	23020118039	ASWIN G L	✓			
40	23020118040	ASWIN J S			✓	
41	23020118041	ASWIN M S			✓	
42	23020118042	BHARATHKRISHNA P			✓	
43	23020118043	DETHAN R S			✓	
44	23020118044	GAUTHAMY ANIL	✓			
45	23020118045	KISHORE MADHAV	✓			
46	23020118046	LEKSHMI PRADEEP. S			✓	
47	23020118047	NANDA. S. S	✓			
48	23020118048	PREETHI P.S.	✓			
49	23020118049	SABARIKANTH S S			✓	
50	23020118051	SNEHA P	✓			
51	23020118052	SYAMKUMAR. S	✓			
52	23020118053	VISHAL. B		✓		
53	23020118054	JAZIM IBRAHIM	✓			
54	23020118055	NANDANA. A.S	✓			
55	23020118056	NOUREEN S N	✓			
56	23020118057	SREENADH.S		✓		
57	23020118058	PRAVEENA V GOPAL	✓			
58	23021118001	AARDRA N A	✓			
59	23021118002	ABHAY A.S			✓	
60	23021118003	ABHINAV H B	✓			
61	23021118004	ADARSH M.S	✓			
62	23021118005	AKHIL PRADEEP P B	✓			
63	23021118006	AMAL KISHORE P			✓	
64	23021118007	AMBADI SURESH S S	✓			
65	23021118008	ANAND S	✓			
66	23021118009	ARCHA M.S	✓			
67	23021118010	ARYA R L			✓	
68	23021118011	ASWIN A S	✓			
69	23021118012	AVANTHIKA RAJESH	✓			
70	23021118013	BHAGATH A .R	✓			
71	23021118014	GADHA M LEKSHMY				
72	23021118015	GOURI. R	✓			
73	23021118016	JISHA. L				
74	23021118017	KANCHANAKRISHNA	✓			
75	23021118018	MEENAKSHI A M				

76	23021118019	PARTHAN.A.S				
77	23021118020	PARVATHY PRATHAP				
78	23021118021	REMYA CHANDRAN				
79	23021118022	SAJIN R	✓			
80	23021118023	SIDHARTH J	✓			
81	23021118024	SNEHA A		✓		
82	23021118025	SREELEKSHMI B	✓			
83	23021118026	A ASWAL		✓		
84	23021118027	ABHINAV.V.S			✓	
85	23021118028	ABIN .A.S.	✓			
86	23021118029	ADITHYA RAJU			✓	
87	23021118030	AKASH S K	✓			
88	23021118031	AKSHAY JOSHUA	✓			
89	23021118035	ARJUN DEV. G	✓			
90	23021118036	ASWIN DAS S G	✓			
91	23021118037	ASWIN S M		✓		
92	23021118038	GAUTHAM S NAIR	✓			
93	23021118039	GOKUL B S	✓			
94	23021118040	GOPIKA L			✓	
95	23021118041	KARTHIKA .B.A			✓	
96	23021118042	KRISHNAJA. M	✓			
97	23021118043	MEGHNA PRAMOD				
98	23021118044	NIVEDA N V	✓			
99	23021118045	SNEHA S				
100	23021118046	SRAVAN S P	✓			
101	23021118047	SRUTHI .S	✓			
102	23021118048	VISHNU B A	✓			
103	23021118049	ATHUL VIJAY V S			✓	
104	23021118050	BEENA.P	✓			
105	23021118051	MEKHA .U		✓		
106	23021118052	RIJU. B.	✓			
107	23021118053	SAJITH.S				
108	23021118054	VISHNU S	✓			
109	23019118038	ASWANATH V S				
110	23019118039	ASWIN DEV J	✓			
111	23019118040	DILNA DAMODARAN	✓			
112	23019118041	GOVIND C				
113	23019118042	HARIGOVIND J R	✓			
114	23019118043	HARITHA L H		✓		
115	23019118044	JAGAN G PILLAI	✓			
116	23019118045	MARIA SEBASTIAN	✓			

117	23019118046	NIKHITHA A K		✓		
118	23019118047	S BIDHU BHOOSHAN		✓		
119	23019118048	UDAYALAL R			✓	
120	23019118049	VAISHNAVI PRASAD	✓			



HEAD
 DEPARTMENT OF PHYSICS
 MAHATMA GANDHI COLLEGE
 THIRUVANANTHAPURAM


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 Associate Professor
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 Thiruvananthapuram-695004

**DEPARTMENT OF PHYSICS
MAHATMA GANDHI COLLEGE**

Certificate

It is certified that Mrs. Sneha S. has participated in the Add-on course on *Timeline and Evolution of Physics: From Ancient to the Modern* conducted during 2021-2022.


Course coordinator


Head of Department


Principal


DR. PADMA KUMAR H
Associate Professor,
Department of Physics,
Mahatma Gandhi College,
Thiruvananthapuram-695004

Report

The course was conducted for 120 students. Discussions were conducted on daily activities based on Newton's laws of motion and gravity. The importance on laws of thermodynamics and its applications along with simple problems were also attended in the course. The formation of Universe, the big bang theory was discussed. The famous experiments like Newton's discovery of spectrum - Joule's demonstration of conservation of energy, Young's double-slit experiment, Michelson-Morley experiment, Thomson's experiment, Millikan's oil drop experiment, Stern-Gerlach experiment were discussed. The discussion was also carried on eminent people like Archimedes, Isaac Newton, Michael Faraday, James Clark Maxwell - Max Planck, Ernest Rutherford, Neil's Bohr, Albert Einstein, S. Chandrasekhar, S N Bose - C V Raman etc. Students were exposed to the world of science specifically physics with the basic ideas in the subject and importance and contribution of physics to our day today life. Students were satisfied with the course.

