

No.20 2024 - 2025

2023 - 2024

Notice

Course Name: "Mechanics"

Duration: 18 days

Start Date: 1/8/2023

End Date: 18/8/2023

Organized by: Department of physics

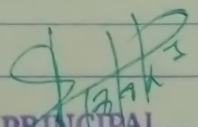
The department of physics with encouragement of Principal madam Bitharitha conducted a certificate course in "Mechanics" for all the students of the college from 1/8/2023 to 18/8/2023 for 18 days programme. The time is 2:30pm to 4:30pm everyday. The course helped the students to improve their knowledge in "Mechanics".

Shreeshq

L. shireesha

Course organized by

Shreeshq
Department of Physics
TGTWRDC (W)-UTNOOR (639)
Dist: Adilabad


PRINCIPAL
TGTWRDC (Girls)
UTNOOR-504311
Dist: Adilabad-TG

Syllabus:-

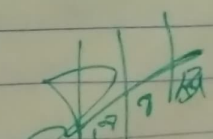
What is physics, Types of physics branches, Introduction of mechanics and its basics, Kinematic equations, Newton's laws of motion, frame of references Types of forces, Types of frictions, Difference b/w linear momentum and angular momentum, Difference b/w force and Torque, Work, energy, power, work-energy theorem, Deriving of power formulas in different ways, Types of energies, Types of fluids and their properties, pascal law, Bernouli's principle, Archimedis law, Viscosity, surface Tension.

Schedule

Day	Topic
Day 1	What is physics, Types of physics branches
Day 2	Introduction of mechanics and its basics
Day 3	Kinematic equations
Day 4	Newton's laws of motion
Day 5	Frame of references
Day 6	Types of forces
Day 7	Types of frictions
Day 8	Difference b/w linear momentum & angular momentum
Day 9	Difference b/w force and Torque
Day 10	Work, energy, power
Day 11	Work-energy theorem
Day 12	Deriving of power formulas in different ways
Day 13	Types of energies
Day 14	Types of fluids and their properties
Day 15	pascal law, Bernouli's principle
Day 16	Archimedis law
Day 17	Viscosity
Day 18	Surface Tension

S.No	Student name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
x																			
x	33 A. maheshwari	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	34 A. shirisha	x	x	x	a	a	x	x	x	a	x	x	x	x	a	x	x	x	x
x	35 A. sanidhi	x	x	x	x	x	x	a	x	x	x	x	x	x	x	x	x	x	x
x	36 B. Divya	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
x	37 Ch. Hemalatha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	38 D. Prameela	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
x	39 G. swapna	x	x	x	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x
x	40 K. Anura	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	41 K. mangula	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	42 K. Prameela	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	43 K. Deepika	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x	x
x	44 K. Naveena	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	45 M. Ankitha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
x	46 M. Anusuya	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	47 M. Vani	x	x	a	a	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	48 N. Sony	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	49 P.S. Pallavi	x	x	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x
x	50 S. meenakshi	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x	x
x	51 T. Pooja	a	a	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x
x	52 T. Anjali	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
x	53 T. Sony.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Department of Physics
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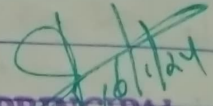
Notice

Course Name: "Electrostatics"
Duration: 15 days
Start Date: 2/01/2024
End Date: 16/01/2024
Organized by: Physics Department.

The department of physics conducted a certificate course in "Electrostatics" with encouragement of principal B. Haritha mam. for all the students of the college from 2/01/2024 to 16/01/2024 for 15 days programme everyday 2 hours i.e., 2:30pm to 4:30pm time allotted for this course.

Sharesh
L. Shireesha
Course Organizers

Sharesh
Department of Physics
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16/01/24
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Syllabus

Introduction of Electrostatics, Coulomb's law, concept of electric-field lines and electric-flux, Gauss law, Applications of Gauss law, Conservative nature of electric-field, Electric potential, potential energy of a system charges, energy density of a electric field, electric-field as a negative gradient of a electric-field, potential due to uniformly charged sphere, calculation of potential from electric-field for a spherical charge Distribution.

Schedule

Day

Topic

Day 1

Introduction of Electrostatics

Day 2

Coulomb's law

Day 3

Concept of electric field

Day 4

Electric flux

Day 5

Gauss law

Day 6

Applications of Gauss law

Day 7

Applications of Gauss law

Day 8

Conservative nature of electric field

Day 9

Electric potential,

Day 10

potential energy of a system of charges.

Day 11

energy density of a electric field.

Day 12

electric field as a negative gradient of electric potential

Day 13

potential due to uniformly charged sphere

Day 14

calculation of potential from electric field

for a spherical charge distribution.

Day 15

Problems - Explanations.

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Student Attendance

No. 27

C.No	Student name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
33	A. mamatha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	A. Tejaswini	a	a	x	x	x	x	x	x	x	x	x	x	x	x	a
35	D. mamika	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x
36	H.K. Geetha	x	x	x	x	x	x	x	x	x	x	x	a	a	x	x
37	H.K. sonali	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
38	J. Rashika	x	x	a	a	x	x	x	x	x	x	x	x	x	x	x
39	J. Dharmabai	x	x	x	x	x	x	x	x	x	x	x	x	x	a	x
40	J. Dhairagavathi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
41	K. Saravathi	x	x	x	a	x	x	x	x	x	x	x	x	a	x	x
42	K. Deepa	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
43	K. Anuradha	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
44	K. Lingubai	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
45	K. Sindhuja	x	x	x	x	x	x	x	x	a	a	x	x	x	x	x
46	K. Snehi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
47	M. Anitha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
48	M. Jagubai	x	x	x	x	x	x	a	a	x	x	x	x	x	x	x
49	m. Rashikala	x	x	x	x	x	x	x	x	a	x	x	x	x	x	x
50	N. Sinija	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
51	M. Somdevi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
52	Rs. Jangubai	x	x	x	x	x	x	x	x	x	x	x	a	x	x	x
53	Rs. Karuna	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
54	P. Geethanjali	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
55	S. Nagarani	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Notice

Course Name: "Waves and Oscillations"

Duration: 17 days

Start date: 20/7/2024

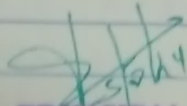
End date: 5/8/2024

Organized by: Physics Department

The physics Department is going to conduct a certificate course on "Waves and Oscillations" with encouragement of principal B. Haritha mam. for all the students of the college from 20/7/2024 to 5/8/2024 for 17 days programme everyday 2 hours i.e., 2:30pm-4:30pm time allotted for this course.

Shreshth
L. Shreeshtha
course organized by

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Syllabus

→ fundamental of vibrations introduction, The simple oscillator characteristics of S.H.M, Energy of S.H.M, Frequency of vibration of a spring, principle of superposition of waves, linear superposition of two waves of same frequency, Resultant of n simple Harmonic motions, combination of two mutually perpendicular S.H. vibrations, Lissajous figures and their Graphical representations, Determination of frequency, Damped Harmonic oscillator, energy & power dissipation in damped harmonic oscillator, logarithmic decrement, Relaxation time & Quality factor, forced vibrations, Resonance.

Schedule

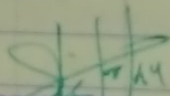
Day	Topic
Day 1	Introduction of fundamental of vibrations
Day 2	The simple oscillator, c/d
Day 3	Characteristics of S.H.M
Day 4	Energy of S.H.M
Day 5	Frequency of vibration of a spring
Day 6	principle of superposition of waves,
Day 7	linear superposition of two waves of same frequency
Day 8	Resultant of n simple Harmonic motions,
Day 9	Combination of two mutually perpendicular S.H. vibrations
Day 10	Lissajous figures and their graphical representation
Day 11	Determination of frequency,
Day 12	Damped Harmonic oscillator,
Day 13	energy and power dissipation in damped H.O
Day 14	logarithmic decrement, Relaxation time
Day 15	and Quality factor,
Day 16	forced vibrations
Day 17	Resonance.

Student Attendance

No.31

Sl. No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
33	Ch. Hemalatha	x	x	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x
34	D. Poornima	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
35	G. Swapna	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
36	G. Swapna	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x	x	x
37	L. Anura	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
38	Y. Manjula	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
39	T. Bhramika	x	x	x	x	x	x	x	x	x	x	x	a	a	x	x	x	x
40	T. Sony	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
41	S. Pallavi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
42	T. Sani	x	x	x	x	a	a	x	x	x	x	x	x	a	a	x	x	x
43	M. Ankitha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
44	M. Anusuya	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
45	M. Vani	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
46	T. Pooja	a	a	x	x	x	x	x	x	x	a	a	x	x	x	x	x	x
47	T. Anjali	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
48	K. Sindhuja	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
49	K. Poornima	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
50	S. Meenakshi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
51	M. Sony	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
52	K. Mallashwari	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
52	K. Deepika	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x	x	x

B. K. S. S. S.
 Department of Physics
 TWRDC(W)-UTNOOR (639)
 Dist. Adilabad


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 TGTWRDC (Girls)
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 Dist. Adilabad-TG

No.32 2024-2025

Notice

Course Name: Laser and Fiber optics and Holography
Duration : 15 days
Start date : 22/8/2024
End date : 6/9/2024
Organized by: Physics department

The Physics department is going to conduct a certificate course in laser & fiber optics for all the students of the college from 22/8/2024 to 6/9/2024 for 15 days with the encouragement of principal B Haritha mam. The time for this course is 2:

~~2:30~~
① CH. Rani

~~Shireesha~~
② L. Shireesha
Course organised by

~~Shireesha~~
Department of Physics
TWRDC(W)-UTNOOR(639)
Dist Adilabad

~~6/9/24~~
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TGTWRDC (Girls)
UTNOOR-504311
Dist: Adilabad-TG

Syllabus:-

Laser introduction, spontaneous emission, stimulated emission, population inversion, laser principle, Einstein coefficients
Types of lasers, Applications of lasers, Introduction of fibre optics, Types of optical-fibres, Rays and modes in an optical-fiber, fiber material, Principles of fiber communication, advantages of fiber communication
introduction of Holography, Gabor hologram and its limitations, Holography applications.

Schedule

Day	Topic
Day 1	Introduction to laser
Day 2	laser principle
Day 3	Einstein coefficients
Day 4	He-Ne laser
Day 5	Ruby laser
Day 6	Applications of lasers
Day 7	Introduction to fibre optics
Day 8	step and graded index fibres
Day 9	Rays and modes in an optical fiber
Day 10	fiber material
Day 11	principles of fiber communication
Day 12	Advantages of fiber communication
Day 13	Basic Principle of Holography
Day 14	Gabor hologram & its limitations
Day 15	Holography applications

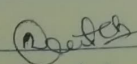
Shaukat
Department of Physics
TTWRDC(W)-UTNOOR (639);
Dist. Adilabad

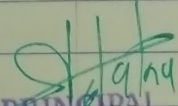
Shaukat
PRINCIPAL
TGTWRDC (Girls)
UTNOOR-504311
Dist. Adilabad-TG

Student Attendance

No.35

S No	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
33	R. Padma	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	R. Vanaja	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
35	S. Lavanya	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x
36	S. Sujatha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
37	J. Gangaiah	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
38	J. Gangaiah	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
39	U. Manika	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
40	Y. Akshaya	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x
41	A. Rupithabai	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
42	A. Laxmi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
43	A. Mamatha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
44	M. Anitha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
45	M. Jambai	x	x	x	x	x	a	a	x	x	x	x	x	x	x	x
46	M. Sathi	x	a	a	x	x	x	x	x	x	x	x	x	x	x	x
47	M. Rashikala	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
48	K. Deepasri	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
49	N. Saruja	x	x	x	x	a	a	x	x	x	x	x	x	x	x	x
50	R. Jangubai	x	x	x	x	x	x	x	a	x	x	x	a	a	x	x
51	S. Nagmani	x	x	x	x	x	x	x	a	x	x	x	x	x	x	x
52	R. Karuna	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
53	D. Manika	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x


Shreshth
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