

ACADEMIC PLAN 2020-2021

PHYSICS

I YEAR

Deleted portion of syllabus in Physics-I

CHAPTER – I PHYSICAL WORLD

- 1.2 Scope and excitement of physics
- 1.3 Physics, technology and society
- 1.5 Nature of physical laws
(To be discussed as a part of introduction and integrated with other topics)

Deleted questions: Nil

CHAPTER –II UNITS AND MEASUREMENTS

No deletions

Chapter-III MOTION IN A STRAIGHT LINE

3.7 Relative velocity

Deleted questions:

- 1.VSAQs: 5,7,8,9 (Page No:56,57)
- 2.SAQs:4,5,6,7,10 (Page No:57)

CHAPTER –IV: MOTION IN A PLANE

No deletions

CHAPTER-V: LAWS OF MOTION

- 5.3 The law of inertia
- 5.4 Newton's first law of motion
- 5.5 Newton's second law of motion
- 5.6 Newton's third law of motion

Deleted questions:

- 1.VSAQs: 1,2,6 (Page No:113)
- 2.SAQs:1,2,3,8 (Page No:113,114)
- 3.LAQs:1,2 (Page No:114)

CHAPTER – VI: WORK, ENERGY AND POWER

No deletions

CHAPTER-VII SYSTEM OF PARTICLES AND ROTATIONAL MOTION

7.10. Theorems of perpendicular and parallel axis.

Deleted questions:

3.LAQs:1,2 (Page No:186)

Chapter VIII OSCILLATIONS

No deletions

CHAPTER –IX GRAVITATION

9.2 Kepler's laws

9.3 Universal law of gravitation (vector form omitted)

9.5 Acceleration due to gravity of the earth

Deleted questions:

1.VSAQs: 2 (Page No:238)

2.SAQs: 1,2 (Page No:238)

3.LAQs: 3 (Page No:238)

CHAPTER – X
MECHANICAL PROPERTIES OF SOLIDS

10.6.3 Shear modulus

10.6.5 Poisson's ratio

10.6.6 Elastic potential energy in a stretched wire

Deleted questions:

1.SAQs:2,3,6,12(Page No:254)

CHAPTER – XI
MECHANICAL PROPERTIES OF FLUIDS

No deletions

CHAPTER – XII
THERMAL PROPERTIES OF MATTER

12.2 Temperature and Heat

12.3 Measurement of temperature

12.9 Heat transfer

Deleted questions:

1.VSAQs:1,2,3(Page No:310)

2.SAQs:1,5(Page No:311)

3.LAQs:1(Page No: 311)

**CHAPTER – XIII
THERMODYNAMICS**

13.9 Heat engines

13.10 Refrigerator and heat pumps

13.13 Carnot engine

Deleted questions:

1.VSAQs:12(Page No:333)

2.SAQs:9(Page No:334)

3.LAQs:1,2(Page No: 334)

**CHAPTER – XIV
KINETIC THEORY**

No deletions

ACADEMIC PLAN 2020-21

PHYSICS

II YEAR

Deleted portion of syllabus in Physics-II

CHAPTER – 1 WAVES

1.8 Doppler Effect

Deleted questions:

1.VSAQs: 14,20,21 (Page No:32,33)

2.SAQs:11 (Page No:33)

3.LAQs:5,6 (Page No:33)

CHAPTER– 2 RAY OPTICS AND OPTICAL INSTRUMENTS

2.2 Reflection of light by Spherical Mirrors

2.8.2 Scattering of light

Deleted questions:

1.VSAQs: 4,6,7 (Page No:75)

2.SAQs:2,3,4,8 (Page No:76)

3.LAQs:1,2 (Page No:76)

CHAPTER – 3 WAVE OPTICS

3.6.3. Resolving power of optical instruments

3.7 Polarisation

Deleted questions:

1.VSAQs: 3,4,5,6 (Page No:115)

2.SAQs:5,6(Page No:115)

3.LAQs:5 (Page No:115)

CHAPTER – 4
ELECTRIC CHARGES AND FIELDS

4.15.3 Application of Gauss' Law

Deleted questions:

1.VSAQs: 13 (Page No:164)

3.LAQs:3 (Page No:165)

CHAPTER – 5:
ELECTROSTATIC POTENTIAL AND CAPACITANCE

No deletions

CHAPTER – 6
CURRENT ELECTRICITY

6.7 Resistivity of various Materials

6.10 Combination of resistors-series and parallel

Deleted questions:

1.VSAQs: 8,9,12 (Page No:249)

2.SAQs:3,8,9,13,14(Page No:250)

3.LAQs:2,4,5 (Page No:251)

CHAPTER – 7
MOVING CHARGES AND MAGNETISM

7.4.2 Cyclotron

Deleted questions:

2.SAQs:9(Page No:299)

CHAPTER – 8
MAGNETISM AND MATTER

- 8.2.2 Bar Magnet as a equivalent solenoid
- 8.2.3 The dipole in a uniform magnetic field
- 8.6. Magnetic properties of materials
- 8.7. Permanent magnets and electromagnets

Deleted questions:

- 1.VSAQs: 4,9(Page No:332)
- 2.SAQs:1,3,5,7(Page No:332)
- 3.LAQs:2,7 (Page No:332,333)

CHAPTER – 9
ELECTROMAGNETIC INDUCTION

No deletions

**CHAPTER – 10
ALTERNATING CURRENT**

10.7 Power in AC Circuit: The Power Factor

Deleted questions:

1.VSAQs: 7,8 (Page No:406)

**CHAPTER – 11
ELECTRO MAGNETIC WAVES**

11.2 Displacement Current

Deleted questions:

1.VSAQs: 10(Page No:428)

**CHAPTER–12
DUAL NATURE OF RADIATION AND MATTER**

12.9 Davisson and Germer Experiment

Deleted questions:

3.LAQs:2 (Page No:453)

**CHAPTER–13
ATOMS**

No deletions

**CHAPTER-14
NUCLEI**

14.4.2 Nuclear Binding energy per nucleon and its variation with mass number (Page No: 494)

14.6 Radioactivity

Deleted questions:

1.VSAQs: 5,6,7,8,9,17 (Page No:512)

2.SAQs:5,6,7,8,9,10,11(Page No:512,513)

3.LAQs:1,2 (Page No:513)

**CHAPTER-15
SEMICONDUCTOR ELECTRONICS: MATERIALS, DEVICES AND
SIMPLE CIRCUITS**

15.8.1 Zener diode

Deleted questions:

1.VSAQs: 6,7,8,12 (Page No:561)

2.SAQs:7(Page No:562)

3.LAQs:3 (Page No:562)

**CHAPTER- 16
COMMUNICATION SYSTEMS
No deletions**

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Deleted Experiments

S.NO	Name of the experiment
1	Physical balance
2	Surface tension
3	Apparent expansion of solids
4	Concave mirror

5	Tangent galvanometer
6	Characteristics of transistor

Prepared by:

1. Ramana Rao V Principal GJC Dindi, NLG
2. N.V.K. Vishweshwar Rao Principal Vijaynagar Jr College, HYD
3. Dr. K. Parvathalu, JL in Physics, Government Junior College, RJNR, R R
4. Manjula Devi GJC Kandukuru, R R District
5. Naaz Sulthana GJC Sanga Reddy