

**TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION,**  
**HYDERABAD**

**ACADEMIC YEAR 2020-2021**

**30% DELETED CONTENT IN VIEW OF COVID-19 PANDEMIC**

**INTERMEDIATE 1<sup>st</sup> YEAR PHYSICS SYLLABUS**

**CHAPTER – I: PHYSICAL WORLD**

- 1.2 Scope and Excitement of Physics.
- 1.3 Physics Technology and Society
- 1.5 Nature of Physical Laws

**CHAPTER –II: UNITS AND MEASUREMENTS**

No Deletions

**Chapter-III: MOTION IN A STRAIGHT LINE**

No Deletions

**CHAPTER –IV: MOTION IN A PLANE**

No Deletions

**CHAPTER-V: LAWS OF MOTION**

- 5.2 Aristotle's fallacy
- 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

(These topics are deleted, however they must be recapitulated as a pre-requisite to deal with the remaining topics of the chapter.)

**CHAPTER – VI: WORK, ENERGY AND POWER**

No Deletions

**CHAPTER-VII: SYSTEM OF PARTICLES AND ROTATIONAL MOTION**

- 7.10 Theorems of perpendicular and parallel axes.

## **Chapter VIII: OSCILLATIONS**

No Deletions

## **CHAPTER –IX: GRAVITATION**

- 9.2 Kepler's laws
- 9.4 The Gravitational Constant (despite the topic is deleted, the value of G should be mentioned to the student)
- 9.5 Acceleration due to gravity of earth

## **CHAPTER –X: MECHANICAL PROPERTIES OF SOLIDS**

- 10.6.2 Determination of Young's Modulus of the material of a wire.
- 10.6.3 Shear modulus
- 10.6.5 Poisson's ratio
- 10.6.6 Elastic potential energy in a stretched wire
- 10.7 Applications of elastic behavior of materials

## **CHAPTER – XI: MECHANICAL PROPERTIES OF FLUIDS**

No Deletions

## **CHAPTER – XII: THERMAL PROPERTIES OF MATTER**

- 12.9 Heat Transfer
- 12.9.1 Conduction
- 12.9.2 Convection
- 12.9.3 Radiation

(These topics are deleted, however they must be recapitulated as a pre-requisite to deal with the remaining topics of the chapter.)

## **CHAPTER – XIII: THERMODYNAMICS**

- 13.9 Heat engines
- 13.10 Refrigerator and heat pumps
- 13.13 Carnot engine

## **CHAPTER – XIV: KINETIC THEORY**

No Deletions

### **Deleted Experiments of First Year Practicals**

1. Physical balance
2. Surface tension
3. Apparent expansion of liquids