# TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

# ACADEMIC YEAR 2020-2021

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

# INTERMEDIATE 1st 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