

# Annual Pedagogical Plan for session 2023-24

## CLASS XI PHYSICS

<u>What are the problems?</u>	<u>Compilation of problems</u>	<u>Categorization of Problems (Subjective &amp; Behavioral)</u>	
1. Lack of proper writing skills.	Students find problem in: <ol style="list-style-type: none"> <li>1. Deriving the formula, calculation, unit conversion and application (Application)</li> <li>2. analysis of graph and to solve questions related to graph (Analysis)</li> <li>3. relating the concept with daily life. (Application)</li> <li>4. understanding the language of question paper and time management during exam. (Evaluate)</li> <li>5. Attempting less number of Question in exam due to above problem</li> </ol>	<u>Subjective</u> <ol style="list-style-type: none"> <li>1. Students, instead of understanding, few of them Mug up the subject content and could not able to solve the Application based Question paper</li> <li>2. Students face problems in understanding the conceptual questions, HOT'S questions</li> </ol>	
2. Difficulty in solving case studies. Source – based questions Assertion Reasoning and logical reasoning-based Questions.		<u>Behavioral</u> <ol style="list-style-type: none"> <li>1. Students lack focus and perform careless mistakes during application of formulae.</li> <li>2. Lack of regular practice in numerical.</li> <li>3. Lack of concentration and interest in the topic and takes more time to understand the concepts.</li> </ol>	
4. Not using proper format in solving numerical questions.			
5. Slow in Mathematical calculations.			
6. applying concepts to day-to-day life. 7. Comprehending the language of question paper.			

## COMMON KPI FOR CLASS XI PHYSICS TERM 1 2022-23

KPI NAME	KPI DE F. NO	KPI DEFn. COMMON	WHERE ARE WE NOW? (scale & description)	KPI GOAL	KPI LIMIT	WHAT WE NEED TO DO?	HOW WILL IT BE ACHIEVED?	KPI MEASUREMENT	REVIEW	KPI REPORTING	KPI ACHIEVEMENT	KPI IMPROVEMENT
Analytical and scientific problems	01	<p><b>KPI 01:</b> Students face problems in understanding the conceptual questions, HOT'S questions</p> <p><b>KPI 02 :</b> Students face problems in solving numerical portion/ mathematical calculation in chapters like motion in straight</p>	Appr. 30% of the students are able to understand.	40%	+2% / - 2%	To give more Practice and continuous follow – up action.	<p>1. To prepare lesson plan according to the KPI.</p> <p>2. Written assignment sheet after completing topic / Chapters will be given.</p> <p>3. Providing Supporting Material/summary such as discussion of points to remember to understand the basic terminologies of the chapter in the form of notes should be provided.</p>	Self – Assessment test /practice Test after every Chapter.	It will be done after every periodic test and exam	In every Six months.		

		<p>line, motion in a plane, forces and laws of motion, work and energy gravitation etc.</p> <p><b>KPI 03 :</b> Students Face problem in analytical study of Graphical portion ,</p> <p>applying proper formula, to understand the sign convection in topics such as motion, forces and Laws of motion, Gravitation, work and Energy and one dimension</p>					<p>4. proper formula practice along with its unit should be given to all the students in class along with the framing of given content in numerical part.</p> <p>5. proper copy checking work should be done in class for their updates.</p> <p>6. Remedial classes to be taken for average and Below average students.</p> <p>7. Proper follow up to be given to parents regarding the improvement of the students.</p> <p>8. if required students have</p>				
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		and two dimension  To write proper degree of order in mathematical solution					to give practice on class Board						
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## CSNC SUPER 10 JEE/NEET/CBSE

### ACTION PLAN / PROPOSAL PLAN

TO INCULCATE CLASS XI AND XII STUDENTS FOR THE PREPRATION OF JEE/NEET EXAMINATION FOR THE SESSION 2023-24.

#### EXPENSES BEARED BY STUDENTS

1. A CHARGE OF RS. 25000/- PER SUBJECT FROM EACH STUDENT
2. STUDY MATERIAL COST WILL BE
  - A) APPROX. 2500 PAGES (PER SUBJECT) WHICH INCLUDE MODULES, TEST PAPERS, SOLUTIONS ETC WILL BE APPROX. 10 TO 12 RS PER PAGE WILL BE THE COST
  - B) MISC. EXPENSES FOR STATIONARY ITEMS APPROX.15000 RS

#### FUTURE SCOPE

1. STUDENTS OF CLASS IX AND X COULD BE GIVEN FREE CLASSES IN THE MONTH OF DEC/JAN FOR PREPRATION OF KVPY AND OTHER ENTRANCE EXAMS OF THAT LEVEL
2. DISCUSSION OF IMO/NSO EXAM PAPER CAN ALSO BE DONE.
3. ON SECOND/FOURTH SATURDAY, STUDENTS CAN BE CALLED FOR THEIR REGULAR JEE/NEET CLASSES.

#### COMMON ISSUES/PROBLEMS

1. ADJUSTMENT OF SCHOOL TIME TABLE AS WELL AS JEE/COMPETITIVE TIME TABLE.
2. APPROPRIATE TIME IS REQUIRED FOR SYLLABUS COMPLETION AND REVISION.
3. STUDENTS OFTEN REQUIRE ALL MAJOR SUBJECTS AT THE SAME PLACE.
- 4. MINIMUM NUMBER OF STUDENTS SHOULD BE 15.**
5. NO. OF DAYS REQUIRED PER WEEK WILL BE 4.



**LESSON PLAN 1**  
**SUBJECT : PHYSICS**  
**CLASS: XI**

**(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT,  
ACCORDINGLY, THE TABLE TO BE FILLED)**

**TOPIC- UNITS AND DIMENSIONS**

**BRIEF DESCRIPTION- Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.**

**KPI DEFINITION :**

**KPI 01 :** Students face problems such as in understanding the concept of degree, minute and second of an angle to find the size of Any long distance Object and other practical Applications such as degree of order and Basic differences between the system of units and their conversion and to apply the concept of Significant figures

**KPI 02:** students face problem in understanding the concepts of forming the dimensional formulas, committing mistakes in framing the equations for relation among two different physical quantities and other Applications

**KPI 03 :** Students face problems in understanding the conceptual questions, HOT'S questions

**OBJECTIVES:**

**I- Specific Objectives-**

**SP 1.** To identify the Basic differences between fundamental and derived units of different physical Quantities and to understand the importance of the topic that what is the need of units

**SP2.** It helps the students to understand the basic concepts of Accuracy and Precision and also helps to find the errors in calculation part.

## **II -Behavioural Objectives**

**To enable the students to-**

**B 1** To learn the practical aspects of the chapter along with different parameters

**B 2** Students will learn how to find the difference between experimental value and True value of any physical Quantity.

## **PROCESS /ACTIVITIES**

**ACT 1.** To prepare chart of Dimensional formula for Different physical quantities

**ACT 2.** By Group Discussion method and make them understand about the various types of units and dimensional formula

## **ASSESSMENT:**

**A1** - Worksheet of Related topic should be given to the students

**A2** – To solve examples related to applications of dimensional analysis About the different values of different Physical Quantities along with proper units

**A3-** To give them assignment to form few examples related to degrees, minutes and seconds of an angle used in day to day life such as reading of a Analog clock in format of degree.

**DIGITAL CONTENT TO BE USED: (if applicable)**

**PPT's**

## **EXPECTED LEARNING OUTCOME–**

**Students will be able to:**

1. To get the complete understanding of the chapter.
2. Solve different typology of questions.



3. To use the Theoretical concepts in practical knowledge for measuring different physical Quantities

<b>Placement of Objectives, Instructional Activities and Assessment</b>						
<b>Topic: UNITS AND MEASUREMENT</b>						
	<b>KNOWLEDGE</b>	<b>UNDERSTANDING</b>	<b>APPLICATION</b>	<b>ANALYSIS</b>	<b>SYNTHESIS</b>	<b>EVALUATION</b>
<b>Objectives</b>	B1	SP1 /SP2	SP2 / B2			
<b>Activities</b>	ACT 1	ACT2				
<b>Assessment</b>		A1	A2 , A3			

**REVIEW OF THE LESSON PLAN**  
**(TO BE DONE WHEN THE LESSON GETS OVER)**

- Problems faced –**
- Success-**
- Failure-**
- Real Learning Outcomes**
- ELO-**
- Students’ response/ participation**
- Teacher’s Learning**
- TO INCORPORATE IN TERM 2-**

**LESSON PLAN 2**  
**SUBJECT: PHYSICS**  
**CLASS: XI**

**(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT,  
ACCORDINGLY, THE TABLE TO BE FILLED)**

**TOPIC- MOTION IN ONE DIMENSION**

**BRIEF DESCRIPTION-**). Motion in a Straight-Line Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and nonuniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment)

**KPI DEFINITION :**

**KPI 01 :** Students face problem in Analytical part/ Application part of numerical

**KPI 02:** Also the students gets confused in applying three Equations of motion in numerical part along with their graph

**KPI 03 :** Students face problems in understanding the conceptual questions, HOT'S questions

**OBJECTIVES:**

**I- Specific Objectives-**

**SP1** To apply the concept of one dimension in Gravitation part and to solve conceptual Questions

**SP2.** To understand concepts of one dimension and to cover the topics such as distance, displacement, speed velocity etc. and to relate it with practical examples an would be able to solve Questions related to one dimensional motion

## **II -Behavioural Objectives**

### **To enable the students to-**

**B1.** students face problems in the graphs of relative velocity

**B2** To learn the other practical aspects of the chapter and would be able to solve different types of questions

### **PROCESS /ACTIVITIES**

**ACT 1.** To Frame their own practical life example in which they can show one dimension motion.

**ACT 2.** By Group Discussion method and make them understand about the various concepts of one-dimensional motion such as relative velocity, gravity questions etc.

### **ASSESSMENT:**

**A1** - Worksheet of Related topic should be given to the students

### **DIGITAL CONTENT TO BE USED: (if applicable)**

**PPT's**

### **EXPECTED LEARNING OUTCOME-**

#### **Students will be able to:**

1. To get the complete understanding of the chapter.
2. Solve different typology of questions.

<b>Placement of Objectives, Instructional Activities and Assessment</b>						
<b>Topic: UNITS AND MEASUREMENT</b>						
	<b>KNOWLEDGE</b>	<b>UNDERSTANDING</b>	<b>APPLICATION</b>	<b>ANALYSIS</b>	<b>SYNTHESIS</b>	<b>EVALUATION</b>
<b>Objectives</b>		SP 1 / B1	SP2 / B 2			
<b>Activities</b>	ACT 1		ACT 2			
<b>Assessment</b>						

**REVIEW OF THE LESSON PLAN**  
**(TO BE DONE WHEN THE LESSON GETS OVER)**

**Problems faced –**

**Success-**

**Failure-**

**Real Learning Outcomes**

**ELO-**

**Students' response/ participation**

**Teacher's Learning**

**TO INCORPORATE IN TERM 2-**