

LESSON PLAN 1
SUBJECT : PHYSICS
CLASS: XII

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

TOPIC- CURRENT ELECTRICITY

BRIEF DESCRIPTION- Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.

KPI DEFINATION

KPI 01: Students face problems in understanding the conceptual questions, HOT'S questions

KPI 02 : Students face problems in solving numerical portion/ mathematical calculations of Kirchoff's law , Wheatstone bridge Etc.

KPI 03 : Students Face problem in analytical study of Graphical portion of resistivity and limitations of ohm's law

OBJECTIVES:

I- Specific Objectives-

- a) To give more practice to students in form of different pattern of questions of previous year CBSE BOARD EXAM
- b) To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to connect the subject with daily life examples such as Learning of electric components connected in series and parallel with their concepts

II -Behavioural Objectives

To enable the students to-

B1 to develop interest in framing their own practical examples

B2 To Develop the critical thinking and scientific Attitude of the students.

B3 To Find problem in understanding the language of questions and time management

PROCESS /ACTIVITIES

ACT 1 : To find the value of resistance and resistivity per cm. by using Ohm's law

ACT 2 : To verify the value of unknown resistance by Using meter bridge.

ASSESSMENT:

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

A2 - Students can Also be assessed on the Basis of Activities that they are performing in Lab and to teach them about the concept of error occurred in there theoretical and practical Reading

A3 - Self designed MCQ sheets to be given to students so that the student would also become a critical Thinker.

DIGITAL CONTENT TO BE USED: (if applicable)

To explain the topic properly in a visualized manner.

EXPECTED LEARNING OUTCOME-

Students will be able to:

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

	Placement of Objectives, Instructional Activities and Assessment					
	Topic: MOTION					
	KNOWLEDGE	UNDERSTANDING	APPLICATION	ANALYSIS	SYNTHESIS	EVALUATION
Objectives	B1	SP1	SP2	SP2	B2	B3
Activities		SP3				
Assessment			ACT 1 AND 2			

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-

Annual Pedagogical Plan for session 2023-24

CLASS XII PHYSICS

<u>What are the problems?</u>	<u>Compilation of problems</u>	<u>Categorization of Problems (Subjective & Behavioral)</u>	
1. Lack of proper writing skills such as Definitions Differences , Graphs with their denotations on X axis and Y axis Etc.	Students find problem in : <ol style="list-style-type: none"> 1. analysis of graph and to solve questions related to graph (Analysis) 2. understanding the language of question paper and time management during exam. (Evaluate) 3. Attempting a smaller number of Question in exam due to above problem 4. To solve numerical Questions properly 5. To write proper explanation for conceptual Questions 	<u>Subjective</u> <ol style="list-style-type: none"> 1. Students, instead of understanding, few of them Mug up the subject content and could not able to solve the Application based Question paper 2. Students face problems in understanding the conceptual questions, HOT'S questions 	
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"> 1. Students lack focus and perform careless mistakes during application of formulae. 2. Lack of regular practice in numerical. 3. Lack of concentration and interest in the topic and takes more time to understand the concepts. 4. PROBLEMS WHICH ARISE DUE TO LONG ABSENTISM OF STUDENTS 	
5. Not using proper format in solving numerical questions.			
6. Slow in Mathematical calculations. 7. Comprehending the language of question paper.			

KPI NAME	KPI DEF. NO	KPI DEFn.	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>KPI 01: Students face problems in understanding the conceptual questions, HOT'S questions</p> <p>KPI 02 : Students face problems in solving numerical</p>	Appr. 40% of the students are able to understand all the mathematical as well as conceptual problems and can be able to make the circuits as according to the	50%	+2% / - 2%	To give more Practice and continuous follow – up is to be taken	<ol style="list-style-type: none"> To prepare lesson plan according to the KPI. Written assignment sheet after completing topic / Chapters will be given. Providing Supporting Material to understand the basic terminologies of the chapter 	Self – Assessment test /practice Test after every chapter gets completed	It will be done after every periodic test and exam based on marking Schemes	In every Six months.		

		<p>portion/ mathemati cal calculation of Kirchhoff's law and Wheatsto ne bridge etc.</p> <p>KPI 03 : Students Face problem in analytical study of Graphical portion of resistivity and limitations of ohm's law</p>	<p>given data</p>				<p>in the form of notes.</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 pattern of numerical part.</p> <p>5.proper copy checking work should be done in class for their updates.</p> <p>6.Remidial classes to be taken for average and</p>					
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							<p>Below average students.</p> <p>7. Proper follow up to be given to parents regarding the improvement of the students.</p> <p>8.To expand the concept of the topic to little higher level so that the students will be more aware about the concepts used in JEE mains</p>					
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							9. Proper practical would also be conducted Time to time for connecting the topic to practical part.						
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