Weekly planner **Week-110**

Subject: Physics (0625) **Name of the faculty: S.M Tanvir**

Grade-09

Day: Sunday and Tuesday Date: 19/03/24 to 21/03/24	**Learning objectives and Outcomes**: ✔ Students will be able to understand and calculate the current in series and parallel circuits.	**Tools and resources**	***Special remarks***
19/03/24 Day-02	**Ice-Breaking Session (5 minutes):** **Question 1**: "Imagine you have a string of holiday lights. If one bulb goes out, what happens to the rest of the lights? Discuss with your partner." **Question 2:** "Have you ever used multiple appliances connected to a single power strip? How do you think the electricity flows through them? Share your thoughts with the class'' **Development activities- (20 minutes)** **Series Circuit:** 1. Explain that in a series circuit, components are connected end-to-end, forming a single pathway for current flow. 2. Draw a simple series circuit on the board and label the components. 3. Demonstrate how to calculate total resistance in a series circuit (summing individual resistances). 4. Show how to calculate current using **Ohm's Law (I = V/R).** Provide an example problem for students to solve individually or in pairs. **Parallel Circuit:** 1. Explain that in a parallel circuit, components are connected in multiple branches, allowing current to take different paths. 2. Draw a simple parallel circuit on the board and label the components. 3. Demonstrate how to calculate total resistance in a parallel circuit (using reciprocal formula or shortcut). 4. Show how to calculate total current in a parallel circuit using Ohm's Law.	Text Book Marker Board Video clips Worksheets	

	5. Provide an example problem for students to solve **Guided Practice (5 minutes):** Divide students into small groups. Provide each group with a worksheet containing a mix of series and parallel circuit problems. Circulate the room to provide assistance and answer questions. **Closing activities-** (5 minutes) Review key concepts of series and parallel circuits. Summarize the methods for finding total resistance and current in each type of circuit. Encourage students to ask any remaining questions.		
Day-02	**Ice-Breaking Session (5 minutes):** Welcome the students to the lesson and briefly review the topic or concept covered in the previous class. Explain the importance of practicing problem-solving skills and the purpose of today's active lesson. **Case study: Problem exam style questions(chapter-19)** **1.** Divide the class into small groups of 3-4 students each. **2.** Provide each group with a set of exercise questions related to the topic. **3.** Instruct the groups to work together to solve the questions. **4.** Encourage collaboration and discussion within the groups. **5.** Walk around the classroom, offering assistance and guidance as needed. **Closing activities-** (5 minutes) Summarize the key points covered during the lesson. Reinforce the importance of practicing problem-solving skills regularly. Encourage students to continue reviewing and solving exercise questions outside of class to strengthen their understanding of the material.		

Differentiation: By content / Process/ Product/Environment/Class performance.	**Home work:** Practice classwork.	**Assessment tools & strategies:** Formative assessment **Reflection (if any):**