**Weekly planner** **Week-11**

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

**Grade-07**

| **Day: Sunday and Tuesday Date: 25/03/24** | **Learning objectives and Outcomes**: Understand the concepts of voltage, resistance, series, and parallel circuits. Apply knowledge of energy calculation in electrical circuits. Comprehend the significance of mains electricity and earthing in electrical systems. | **Tools and resources** | ***Special remarks*** |
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| **25/03/24 Day-02** | **Ice-Breaking Session (5 minutes):**<br>What is the relationship between voltage, current, and resistance in an electrical circuit?<br>Differentiate between series and parallel circuits. Provide examples of each.<br>**Development activities- (20 minutes)**<br>**Activity 1: Marking classwork-**<br>Divide the class into small groups. Distribute the worksheets containing questions related to voltage, resistance, circuits, and energy calculation. Instruct students to work collaboratively to solve the questions within the given time frame. Circulate around the classroom to provide assistance and clarify any doubts.<br>**Questions:**<br>1. Define voltage and resistance. How are they related in an electrical circuit?<br>2. Compare and contrast series and parallel circuits. Provide examples of each.<br>3. Calculate the total energy consumed in a series circuit consisting of three resistors connected to a 12V battery, with resistances of 4Ω, 6Ω, and 8Ω respectively.<br><br>**Discussion:** Have each group present their answers to one of the questions from the worksheet. Encourage class discussion and peer-to-peer teaching to reinforce understanding. Address any misconceptions and provide additional explanations as needed.<br>**Conclusion:**<br>Summarize the key points covered in the lesson: voltage, resistance, circuits, energy calculation, mains, and earthing. Reinforce the importance of understanding these concepts in the context of electrical systems. Assign homework related to the topics covered in the lesson, if applicable. | Text Book<br>Marker<br>Board<br>Video clips<br>Worksheets | |

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| **Differentiation:** By content / Process/ Product/Environment/Class performance. | **Home work:** CT Syllabus. | **Assessment tools & strategies:** Formative assessment<br>**Reflection (if any):** |