



DAV PUBLIC SCHOOL, SASARAM

HA & PW for Diwali & Chhath Vacation 2024 - 25

Class : XI (PCM)

SUBJECT	PROJECT WORK
Chemistry	<ol style="list-style-type: none">1. Find out hybridisation, geometry and shape of the following chemical species- CCl_4, XeF_2, SO_3 and IF_52. Write short notes on -<ol style="list-style-type: none">a) FAJAN'S RULEb) Hydrogen bondingc) LCAO
Physics	<p>Make a project file as per the specifications on any one of the following topics-</p> <ol style="list-style-type: none">1. Noble Laureates in Physics, their life and accomplishments (any 5)2. The story of Black Holes (origin, types, Event horizon telescope etc)3. Physics- From Fiction to Reality (Explain/ discuss any 5 innovations/ technological4. advancements based on Physics which will become a reality in the near future) <p>Specifications for the project- Work to be done on one side of the page only The presentation should be supported with pictures and drawings</p>
Maths	<p>Do. Conic section ie Circle; Parabola; ellipse; and hyperbola. Draw graph of $\text{Sin}x$; $\text{Sin}2x$; and $\text{Sin}x/2$. On same graph paper.</p>
English	<ol style="list-style-type: none">1. Bring out and describe the historical elements in 'Discovering Tut: The Saga Continues' and 'The Adventure'2. The poem 'A Photograph' and 'Childhood' are accounts of the poets going back to childhood for different reasons. What are these reasons? Write briefly about each poem.
IP	<ol style="list-style-type: none">1. Write a Python program to input cost of goods (cgos), revenue generated, operating costs (oc) and prints Gross Profit, net profit and net profit percentage. [Hint: net profit = revenue – cgos – oc]2. Write a program that reads the number of seconds and prints it in the form hours minutes seconds. For example, if the number of seconds are 3940, then the output should be 1 hour 5 minutes 40 seconds.

