CAREER POINT
gurukul
KOTA

Science Exhibition

2025-26

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B.Tech, IIT Delhi
OPM, Harvard University, USA

Dear Parents,

Greetings from Career Point Gurukul, Kota!
It gives me great pleasure to share the project report of our recently organized Science Project Exhibition. The event showcased the creativity and scientific curiosity of Gurukul students where 43 innovative projects were presented.
The objective of the exhibition was to ignite a passion for science and provide students with a platform to explore and express their ideas. By engaging in hands-on projects, they enhanced their critical thinking, teamwork, and problem-solving skills.
I sincerely appreciate our dedicated teachers for their guidance and support in making this event successful. Their mentorship encouraged students to excel and build confidence.
We are proud of our students for their hard work and grateful to you, dear parents, for your encouragement. We hope this report highlights their remarkable efforts and achievements.

Warm Regards.

Project Title

Mild-Brew Initiative & Algal Yarn

Class
XI PCB

Suyash Jha , Nambram Arvind
Nihal Ramanand Singh, Nevolia Mayengbam

Project Description

Proposing a tea based fermented alternative for alcohol traditionally served to benefit non-drinkers, enthusiasts, medically presceibed patients. Societally acceptable, natural benefits and the familiar kick provided to people who fancy exquisiteness in a non-drinking gathering. Algal Yarn- Extracting fibres from algae using alginate derivatives that would substitute paper and plastics in modification and packaging industries

Project Title

Herbal Battery

Class
XI PCB

Abhinav Singh, Faiz Khan
Nihal Kumar Das, Sripriya Saha

Project Description

A herbal battery is an eco-friendly battery made using plant extract and natural materials to produce electricity. It is made to provide a sustainable and non-toxic alternative to environmental chemical batteries. Its significance lies in reducing environmental pollution, low-cost energy resource or promoting renewable energy. The main aim is to harness natural resources for clean energy. In future, these can have potential to power small devices and contribute to sustainble energy.

Project Title

Organic Mositurizer

Class
XI PCB

Shashwat Chauhan, Vikrant Sharma
Adarsh, Sachin Kumar

Project Description

A biomoisturizer is an eco-friendly skin care product that improves skin hydration using natural ingredients, showing promising results in texture and moisture retention. This innovation supports sustainable personal care and meets market demand for green cosmetics. In the future, this biomoisturizer can be optimised with chemical testing, expanded ingredient reearch, and scable production to enter larger markets and contribute to sustaible beauty solution.

Project Title

Bio-bandage

Class XI PCB

Sohum Chandra, Satish Raj
Anshu Bhaydiya, Anshu Saket

Project Description

Biobandgae is an eco-friendly biodegradable bandage made from banana peels and other natural substances with improved moisture retention, comfort and minor wound soothing properties, softer feel and fruity smell. Its significance is the usage of natural antibiotics and healing agents to prevent the usage of chemical aids and their side effects. Right now, its just a homemade bandage, but if it gets more support, then these biobandages can be more upgraded for deeper cuts and wounds.

Project Title

Bio-enzyme, Bio-floor Cleaner, Bio-handwash

Class XI PCB

Shashi Verma, Rajni, Gareena, Tannu

Project Description

A natural eco-friendly cleaning agent created by fermentation of fruit/ vegetable peels, jaggery and water. Acting as a powerful catalyst to break down organic waste stains and grease, replacing harsh chemical with a non-toxic biodegradable solution for cleaning homes, drains and even for agricultural purposes. The main aim is to make a natural and sustainable cleaning agent through organic waste that is 100% chemical free and safe for children and pets also.

Project Title

Bagmark Ateler-carfted for Life's Little Things

Class XI Com.

Aarohi Agrawal, Tanisha Agwani, Barsha Saha, Patel Somya Shorya Tak, Aditya Raghav, Nikunj Patidar, Lakshit Bararia

Project Description

Analyzing Financial Viability, Enhancing Creativity and Design, Understanding Market Demand, Developing Entrepreneurial Skills, Promoting Environmental Sustainability

Project Title

Foot Step Power Generator

Class
XI PCB

Yubraj Dandsena, Vaibhav Jaiswal
Divyanshi Chandel, Kavyansh Gola

Project Description

A footstep power generator is a sustainable energy system that converts the kinetic energy from human footsteps into electrical power, using mechanisms like piezoelectric sensors or mechanical gears to capture the force and generate usable electricity, often for charging devices or lighting in high-traffic areas like malls, stations, and schools.

Project Title

Simple Hydrozen Generator

Class
XI PCB

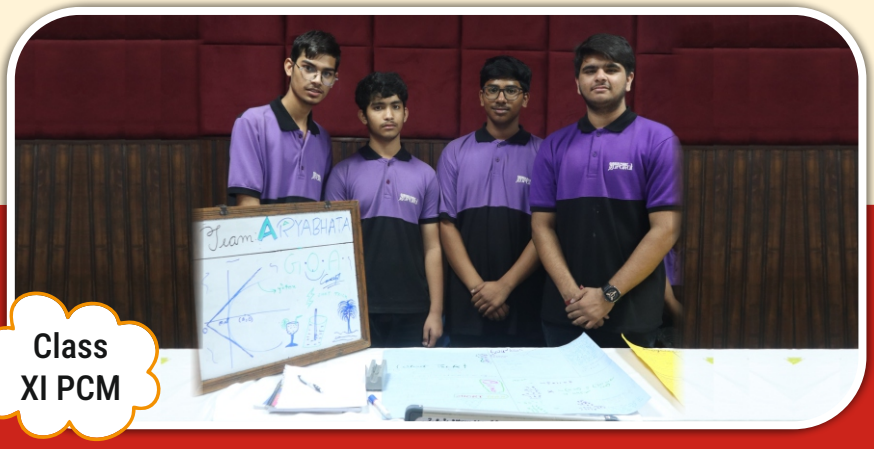
Piyush Panwar, Ngurang Gyasu
Yash Vardhan Dev, Vishvendra Singh

Project Description

A simple hydrogen generator typically uses electrolysis, splitting water into hydrogen and oxygen using electricity, often with a proton exchange membrane (PEM) for purity, providing on-demand, safer gas than cylinders for labs, fuel cells, or industry.

Project Title

Ultimate Concept



Class
XI PCM

Rudransh, Surya, Harshit, Prafull

Project Description

Smartly design the concept to solve the jee problems fast

Project Title

Super Short Tricks

Class
XI PCM

Ansh, Vaibhav, Harsh, Jayesh

Project Description

Short tricks and some concepts with special name by which we easily remind

Project Title

Tesla Coil & Density Lava Lamp

Class
XI PCM

Amritesh Arya, Silok Bhalerav
Farha, S. Tanya Sri

Project Description

How electricity can be conducted without wires It will be a non contact transfer of electricity.It was invented by scientist nicola tesla. Preparation of density lava lamp by vinegar , vegetable oil fabric colours.

Project Title

Universal Portable Electrical & Solar Powered Engine

Class
XI PCM

Mohd Kumail, Mohd Sufiyan

Project Description

An eco-friendly engine that can be used to convert cart, wheelchair, etc.Into electrical vehicle with low cost ,low efforts

Project Title

Maglev Train & Mutual Induction

Class
XI PCM

Suryansh Gupta, Saksham Yadav, Akarsh Raj Gupta
Divyanshi Saini, Himani S. Thakare

Project Description

Project demonstrates wireless electricity transfer using mutual induction between a magnetic levitating train and tunnel through which it panes

Project Title

Automated Garbage Dumper

Class
XI PCM

Swarnayu Singha, Arjun Gupta
Abhishek Singh, Dhruv Gupta

Project Description

Model showcases how an automated garbage dumper functions.It automatically stops in front of houses and let the people dump the garbage once it's filled it itself drives to the nearest dumpyard

Project Title

Carbon Purification Model

Class
XI PCM

Kavita, Poonam, Jyoti

Project Description

It demonstrate how polluted air passes through a carbon filter where contaminants are captured and clean air is released

Project Title

Purification Through Nano Particle Mask Coconut Shells

Class
XI PCM

Abdul Ahad, Deeksha Jain, Vishnu
Harsh Kumar Thakur

Project Description

Purification through nano particle mask using coconut shell

Project Title

Scrubs (Face Hair Lip Body)

Class
XI PCB

Arpita Choudhary, Deepika Choudhary, Prasant Kumar Sagar
Ankit Gajanand Dalke, Arpit Kumar

Project Description

This project explains the preparation and use of a scrub in a simple and clear manner. It shows good understanding of ingredients, method, and benefits of the scrub. The work is neat, practical and demonstrates creativity along with awareness of personal care and safety.

Project Title

Alcohol Detecting Nail Paint

Class
XI PCB

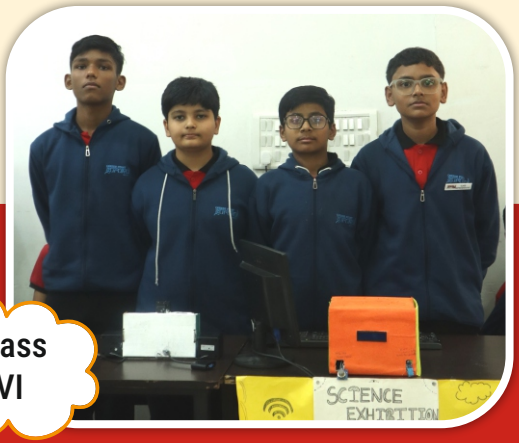
Divyanshi Chandel, Vaibhav Jaiswal, Yuvraj
Rishi Gupta, Shrestha Gupta

Project Description

This project focuses on women's safety by introducing alcohol detecting nail paint as a preventive tool. It clearly explains how the nail paint helps in detecting alcohol in drinks, promoting awareness and self-protection. The project is innovative, socially relevant and demonstrates practical application of chemistry for women's safety.

Project Title

IOT Powered Air Quality Monitoring System



Class VI

Shreyan Saha, Arpit Singh Jat
Yuvraj Singh, Yash Raj

Project Description

The objective of this project is to monitor air quality parameters such as temperature, humidity, and harmful gases in real time using IoT technology. It helps in analyzing pollution levels and sending alerts for unhealthy air conditions.

Project Title

Hydroponic Farming

Class VI

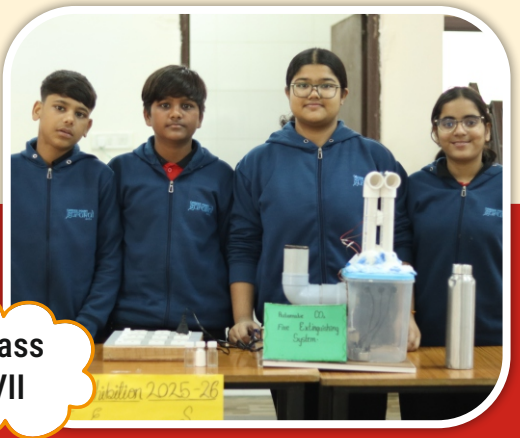
Prapti Pravin Gavali, Aranya Pushp, Stanzin Zankong Tsewang Khaypal, Yannies Ningthoujam Meitie

Project Description

The objective of this project is to demonstrate the method of growing plants without soil using nutrient-rich water solutions. It aims to promote efficient water usage, faster plant growth, and sustainable farming practices suitable for limited land areas.

Project Title

Automatic Carbon Dioxide Fire Extinguishing System



Class VII

Aisha Roy, Suzzaine Dhama
Aditya Pratap Singh, Anmol Choudhary

Project Description

The objective of this project is to automatically detect fire and suppress it using carbon dioxide gas. It helps in preventing the spread of fire by cutting off oxygen supply efficiently.

Project Title

Piezoelectric Plates System

Class VII

Ayush Galav, Stanzin Takpa
Farhan Niyazi, Vidhan Bhargava

Project Description

The objective of this project is to generate electrical energy from mechanical pressure using piezoelectric plates. It demonstrates an alternative and renewable method of power generation.

Project Title

IOT Smart Health Monitoring System

Class VII

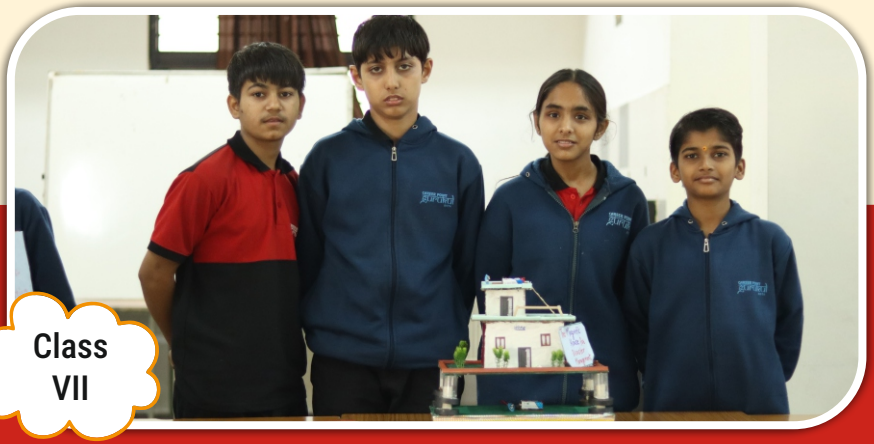
Siddharth Prakash, Ashish Ranjan
Smanla Choswang, Mayur Jat

Project Description

The objective of this project is to continuously monitor vital health parameters such as heart rate and body temperature using IoT sensors. It enables remote health monitoring and early detection of health issues.

Project Title

Magnetic House for Disaster Management



Class VII

Shlok Sachin Bhawale, Archika Gupta
Mohammad Ubair Diwan, Mahendra Dangi

Project Description

The objective of this project is to design a disaster-resistant house using magnetic mechanisms to reduce damage during earthquakes. It focuses on improving structural safety and disaster management techniques.

Project Title

AI Powered Soil and Crop Monitoring System

Class VIII

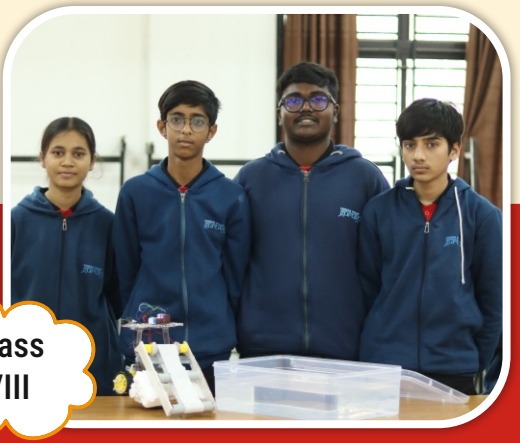
Vedant Raj, Kumar Keshav Shankar
Bhoomi Soni, Nishtha Sirotiya

Project Description

The objective of this project is to analyze soil conditions and crop health using AI and sensors. It assists farmers in making better irrigation and fertilization decisions.

Project Title

Smart River Cleaning Boat



Class VIII

Lakshya Gautam, Abhiman Gupta
Yash Jain, Ankita Sen

Project Description

The objective of this project is to remove floating waste from rivers using an automated boat system. It aims to reduce water pollution and promote cleaner water bodies.

Project Title

Home Security System for Blind People

Class VIII

Keshav Thakur, Vipul Chandravanshi
Divyansh Pathak, Shreyash Ranjan

Project Description

The objective of this project is to help blind people stay safe at home using sound alerts and sensors. It detects danger or intruders and informs the blind people to stay safe.

Project Title

Smart AI Waste Sorting Dustbin

Class VIII

Skarma Dorjey Wangtak, Aatif Rasool Abdullah Jamal Ahmed, Raman Singh

Project Description

The objective of this project is to automatically identify and segregate waste using AI technology. It promotes effective waste management and recycling.

Project Title

Maximum Energy Consuming Solar Panel

Class VIII

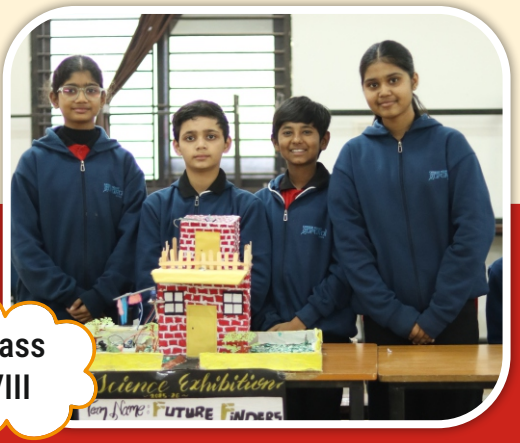
Yashveer Singh, Raghvendra Gaurav Singh
Naitik Choudhary

Project Description

The objective of this project is to maximize solar energy absorption using efficient panel positioning and tracking methods. It focuses on improving solar power utilization.

Project Title

AI based Clothes Drying System



Class VIII

Tanveer Mulani, Kartik Agwani
G. Srinija, Anvita Dhande

Project Description

The objective of this project is to automatically control the clothes drying process using AI based on weather and humidity conditions. It ensures faster and energy-efficient drying.

Project Title

Aero Safe

Class IX

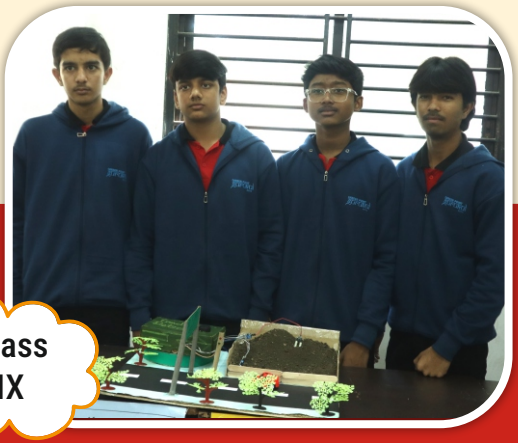
Angel, Navya, Rhythm, Sri

Project Description

To automatically detect emergencies and to send instant alert to pilots and rescue team for Rescue or Saftey of passengers in Air flight

Project Title

Landslide Detection & Warning System



Class IX

Sagnik, Ayan, Aarav Patel, Sameer

Project Description

To develop an early warning system that detects land movement or soil instability and alerts people to reduce loss of life and property.

Project Title

Carbon Air purifier

Class IX

Avni, Kashvi, Aditi, Anika

Project Description

It will help reduce industrial carbon emission and prevent air pollution

Project Title

Earthquake Detector

Class IX

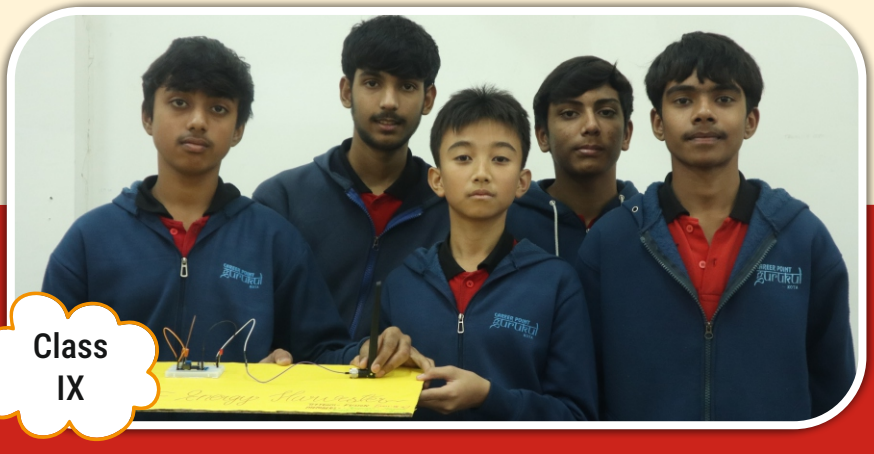
Saumya, Rhidhima, Unnati, Gunjan

Project Description

To detect earthquake and alarm the family inside the building

Project Title

Making Electricity from Wi-Fi Waves



Class IX

Krishna, Aryaveer, Mayank, Achilles, Preet

Project Description

To explore the possibility of generating small amounts of electrical energy from Wi-Fi signals using electromagnetic waves.

Project Title

Accident Prevention Using Oobleck

Class IX

Isha, Shambhavi, Shubheksha

Project Description

To prevent accidents on roads by using oobleck which will work as a kind of speed braker for vehicles

Project Title

Self Guiding Stick

Class IX

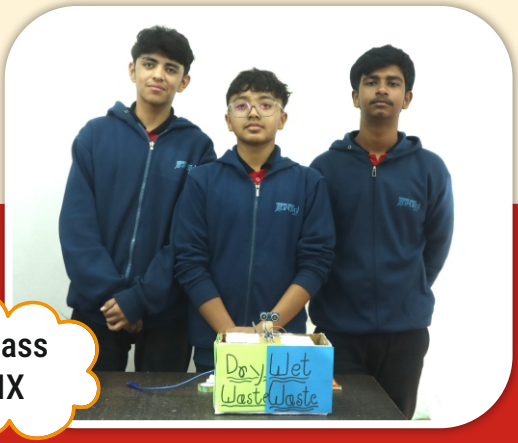
Jaivil, Mohd. Kaif, Aarav, Gunung

Project Description

To design a smart guiding stick that helps visually impaired people detect obstacles and move safely.

Project Title

Smart Trash Detector



Class IX

Pragnay, Soumik, Phunstag Urgain, Aachman

Project Description

It will automatically segregate the dry and wet waste into separate bins.

Project Title

Rain Detector

Class IX

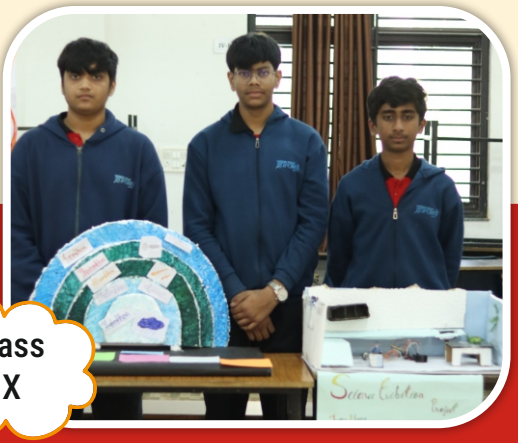
Rudransh, Swapnil, Suboddha, Yuvraj

Project Description

To design a device that detects rainfall and provides an alert for timely actions such as protecting clothes

Project Title

Smart Gas Monitoring and Alert System



Class IX

Arush, Gyayu, Yash, Kamad

Project Description

To develop a system that detects gas leakage and alerts users to prevent accidents and ensure safety.

Project Title

Air Cleaning System

Class IX

Tanishka, Soumya, Sakshi, Akanksha

Project Description

Obtaining Oxggen from Algae and using it for different purposes in day to day life

Project Title

AI Based Multi Functional Room Assistant

Class VIII

Riyansh Anand, Souradeep Das, Abhinav Mangal
Sarthak Naagar

Project Description

The objective of this project is to automate room functions such as lighting, temperature, and security using AI. It enhances comfort, convenience, and energy efficiency.

Project Title

Gyroscopic Train

Class VI

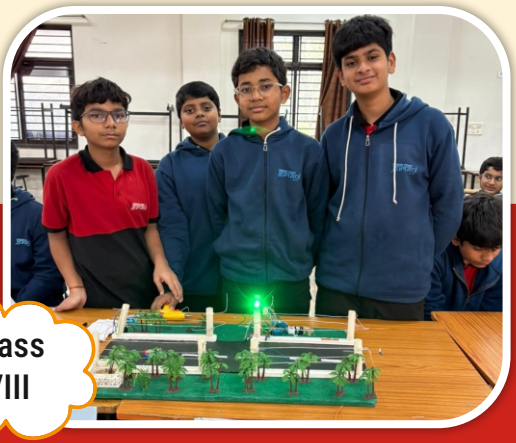
Tanishk Deep Kumar, Kautilya Murti
Ashwani Kumar, Tapas Mishra

Project Description

The objective of this project is to demonstrate how a gyroscope helps maintain balance and stability in trains. It explains the application of gyroscopic principles to prevent derailment and improve safety.

Project Title

Smart Solution for Animals Protection



Class VIII

Ahmad Raza Khan, Rishabh Kumar
Ayush Raj, Raghvendra Singh Kachhawa

Project Description

The objective of this project is to develop a smart system that ensures the safety and protection of animals using sensors and automated alerts. It helps in preventing accidents, detecting threats, and promoting animal welfare through timely monitoring and intervention.

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