



BLUE BELLS MODEL SCHOOL

SECTOR 4, GURUGRAM

»»» E-Newsletter

FROM IDEAS TO IMPACT: FOSTERING DESIGN AND INNOVATION IN EDUCATION



EDUCATION THAT INSPIRES CONFIDENCE

MESSAGE FOR THE READERS

‘From small experiments to big impact—innovation begins here!’

Dear Students

Learning is not just about reading books or preparing for exams. It is about asking questions, exploring ideas, and discovering new ways to solve problems. When you observe carefully, share your thoughts, and try out new experiments—even the small ones—you begin the journey of innovation. Remember, mistakes are also a part of learning, because they help you grow stronger and think differently.

Through design thinking, we encourage you to be curious, creative, and empathetic. The only way to create big change from small prototypes and experiments is to rigorously observe and understand what you’re seeing. It’s important to share this process with others in order to learn..

As you embrace the mindsets of design, remember to use design to be brave. Staying empathy driven to make big changes need systems to be revisited and old worn-out processes to be amended. You may have to deal with the big questions around equity and inclusion in your community, apathy towards environment and so on. Stay focussed and value driven to make ethical design-driven choices for a better tomorrow for all.

Together, let us continue to learn with joy, grow with confidence, and design a future full of possibilities.

Staying inspired is the key message for our young learners into creative, knowledgeable, and independent thinkers who are not shy to express themselves and would lead to be the change-makers!

**Warm regards
Anshu Malika Kumar
Vice Principal
Blue Bells Model School**



DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

Creating Tomorrow's Leaders through Empathy, Creativity, and Resilience

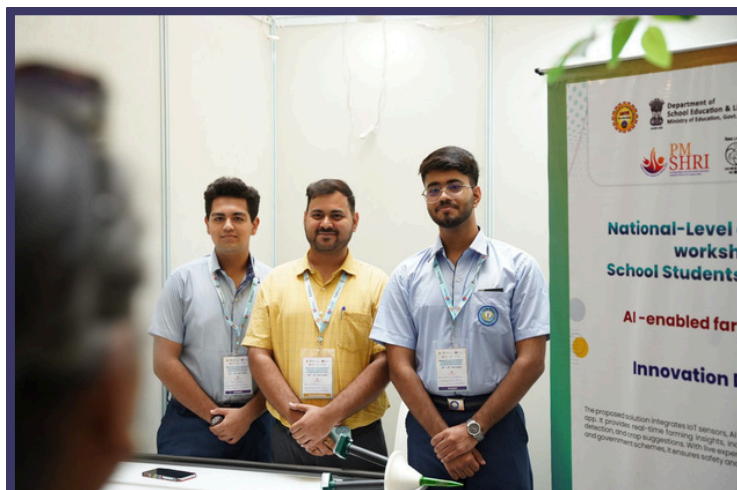
At Blue Bells Model School (BBMS), design thinking is not simply a framework—it is a philosophy that defines our school culture. Rooted in empathy, it drives how we teach, learn, collaborate, and innovate. Our approach equips students and educators with the ability to observe, understand, and respond thoughtfully to challenges, while nurturing a strong sense of social-emotional intelligence.

By embedding empathy into every aspect of our ethos, we foster holistic learning, encourage social integration, and shape students into individuals who are confident, creative, and compassionate.

Empathy at the Core

Empathy is more than just a value—it is the foundation of our design culture. Through active learning, students practice communication, observation, decision-making, and teamwork. These skills prepare them to face challenges not only in academics but also in real-life contexts.

Our guiding values—integrity, care for self and community, appreciation of diversity, creativity, leadership, perseverance, and excellence—create an environment where respect and opportunity are a part of everyday life.



AI -Enabled Farm Fusion
(Grant of ₹ 1,50,000 from MOE & AICTE)



DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

A Culture Where Every Voice Matters

At BBMS, every opinion matters and each voice is heard. We set the tone by modelling ethical practices and ensuring transparency in all actions. All are encouraged to collaborate, share ideas, and grow together, which builds a unified and motivated workforce.

Students and educators are continually nurtured through confidence-building opportunities such as assemblies and workshops, collaborative team-bonding activities and brainstorming sessions, as well as dedicated health and wellness initiatives that support overall well-being.

A strong culture of recognition and appreciation further motivates the community, ensuring that all feel valued and empowered. This environment of encouragement fosters happiness, motivation, and excellence, enabling everyone to contribute meaningfully to a thriving school culture.



Multi Sensory Park Design

DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

Design Thinking in Practice

Our user-centred approach emphasizes listening, understanding, and co-creating. By engaging with stakeholders at every level, we are able to identify real challenges and collaboratively design innovative solutions. This process is strengthened by progressive and transparent leadership, open communication, cross-functional collaboration, and an innovative mindset that thrives on data and feedback.



Tsunami Survival Capsule

Flexible and Future-Ready Learning

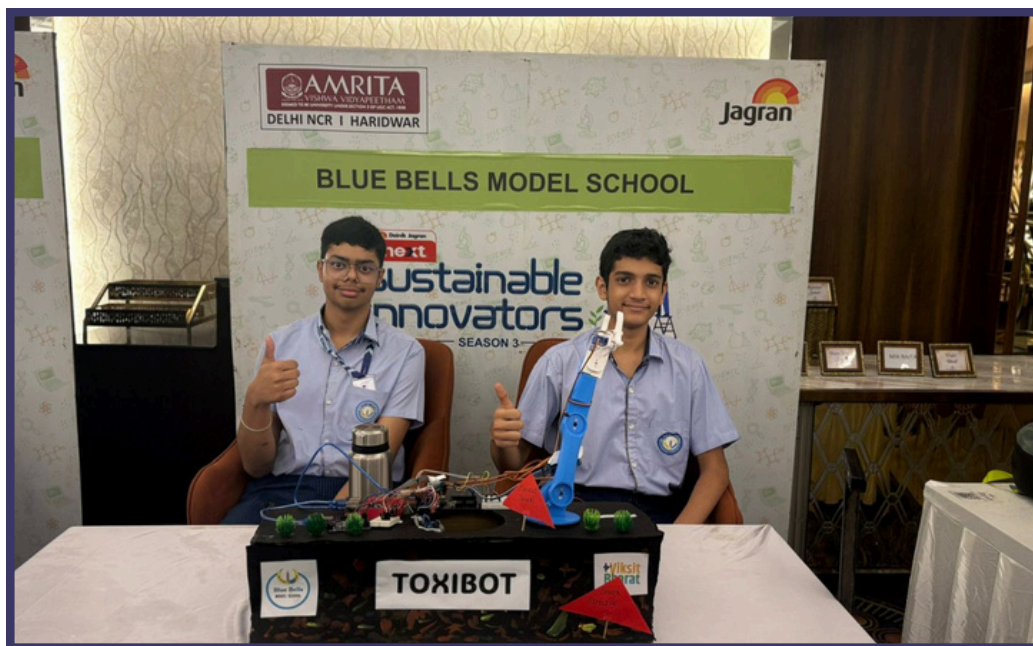
Education at BBMS goes far beyond textbooks, embracing flexible learning approaches that are responsive to student needs and global demands. Through project-based learning, students engage with real-world problems and develop practical skills that prepare them for life beyond the classroom.

Interdisciplinary learning further enriches their experience by helping them connect knowledge across subjects and approach challenges from multiple perspectives.



DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

Competency-based learning ensures that progress is measured by mastery and understanding rather than by the time spent, while student-centred learning empowers young learners to pursue their passions and take charge of their own growth. Together, these approaches make learning at BBMS engaging, meaningful, and truly future-oriented.



**Toxibot
E-Scavenger in Action**

Innovation Beyond the Classroom

Design thinking extends to every sphere of school life, shaping experiences that are both innovative and meaningful. In sports coaching, it fosters discipline and skill through structured mentorship, while cross-team collaboration encourages experimentation, brainstorming, and co-creation.

Storytelling and a culture of experimentation nurture creativity and highlight the importance of learning from failures. A strong focus on equity and inclusion ensures fairness, representation, and a sense of belonging within the community.



DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

Our digital pedagogy, supported by app design and emerging technologies, creates transformative learning environments that keep pace with the future.

Under the flagship of one of its unique school initiatives, the school's Unicorn Cell is a platform for plethora of innovation driven activities/events like Futurix, Business Summit, Cyber events and so on.

Futurix – The Design and Innovation Fair targets whole school participation for seed ideas/prototypes/designs rooted in science and societal applications to foster a culture of creativity and innovative thinking among school children.

Business Summit provides entrepreneurial initiatives to cultivate business-minded problem solvers, and SDG projects instil responsibility towards the environment, inspiring students to adopt future practices and regenerative solutions.



Eco Bricks

DESIGN THINKING & INNOVATION AT BLUE BELLS MODEL SCHOOL

The BBMS Way Forward

A spirit of enquiry and a curious mind, empowers students to innovate with empathy, while also equipping educators and staff with the tools for collaboration, creativity, and continuous growth.

By embracing design thinking as our guiding force, BBMS is shaping a future-ready generation—one that transforms challenges into opportunities and ideas into impactful, sustainable solutions.



Upcycling of Flower Waste

PROJECTS

Athlix

Data Driven Sports Management

An innovative initiative that monitors student's progress, leverages smart analytics to optimize educational resources, and nurtures individual talent through structured and personalized programs.



AquaLoop

Transforming greywater into safe, drinkable water through advanced enzymatic and filtration techniques.

The system employs protease and lipase enzymes to efficiently break down fats and organic residues in greywater, enhancing its purification process.



PROJECTS

Smart Ring

A safety-focused smart ring that allows students to silently send distress signals in emergency situations, ensuring quick help while keeping the attacker unaware.



DIY Hologram Projector

An affordable and simple-to-build DIY hologram projector designed to make 3D visualization accessible to students and enthusiasts while promoting hands-on STEM learning.

The Energetic Heating Pad

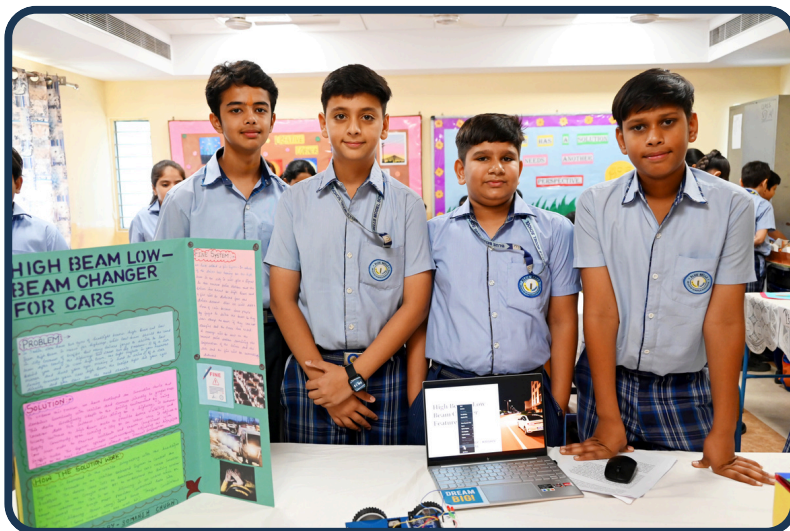
A compact, battery-powered heating pad designed for affordability, portability, and safety — offering warmth on the go with a heat-generating metal rod and insulated outer surface.



PROJECTS

Walking Stick

Walking sticks for the visually impaired still pose challenges in navigation. This project proposes a smart walking stick equipped with sensors to detect obstacles, provide audio or vibration feedback, and assist users in moving safely and independently.



Design Falcons Accidents due to high beam

A device connected to google maps to turn on high beam in highways and low beam in internal cities for roads at night.



PROJECTS

Pointify -Electric Sharpner

An automatic, portable pencil sharpener designed to save time and effort. The device sharpens pencils quickly, efficiently, and uniformly, making it ideal for classrooms, offices, and artists on the go.



Agri Smart Smart Agriculture System

An automated agricultural system that monitors environmental conditions, optimizes water usage, protects crops from pests, and ensures farm safety, enhancing productivity and sustainability.



Eco- Crafters Hand Made Paper

A waste paper recycling system that collects and repurposes leftover paper scraps. The system converts the scraps into reusable sheets or craft material, reducing waste and promoting sustainable practices.



PROJECTS

Clean X Machine

A sewage water cleaning machine designed to filter and purify dirty water efficiently. The system removes solid waste, harmful chemicals, and pathogens, making water safer for the environment and human use.

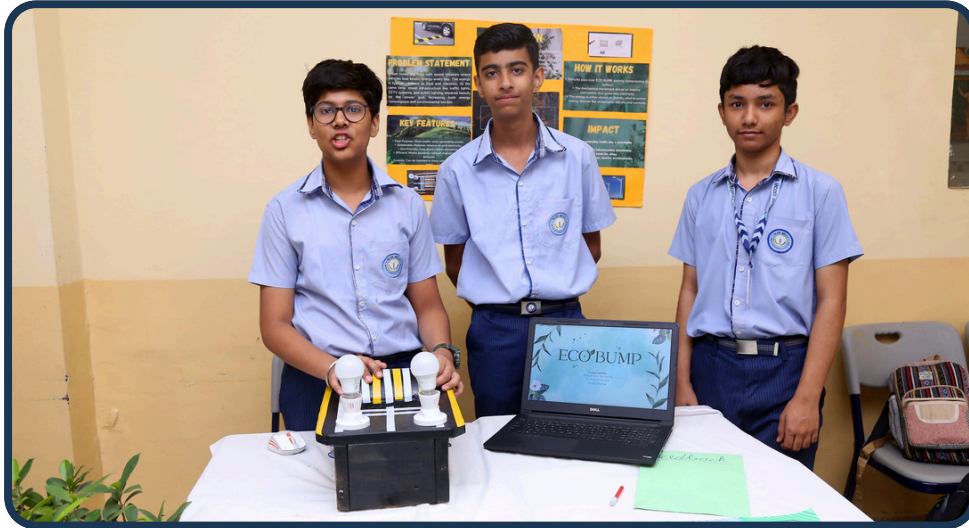


Rotating or Swing Bridge

A rotating bridge design that can open sections to allow the passage of long vessels. This innovative approach reduces construction costs and space requirements, provides flexibility for water traffic, and optimizes labor and materials.



PROJECTS



Eco Bump

Eco Bump is a speed breaker designed to generate electricity from passing vehicles. As a vehicle drives over it, the pressure from its weight activates a mechanical system that produces power. The generated electricity can be stored in batteries or used directly to power nearby infrastructure, providing a sustainable and renewable energy source



Waste management in Mountain area

This project aims to minimize waste in mountain regions by using PEEK (Polyether Ether Ketone), a durable and recyclable material. Waste materials are collected and processed into reusable PEEK-based products, reducing litter and promoting sustainability in tourist-heavy areas.

PROJECTS

Smart Fan

Our Smart Fan automatically switches on or off based on the surrounding temperature, reducing electricity usage and saving money. It provides comfort and energy efficiency without requiring manual control.



MESSAGE FROM EDITORIAL TEAM

As we wrap up this edition of our Design Thinking Newsletter, we celebrate the spirit of creativity, collaboration, and curiosity that drives innovation in every corner of our community. Each idea, prototype, and solution reminds us that design thinking is not just a process — it's a mindset that empowers us to reimagine challenges as opportunities.

Let's continue to empathize, ideate, and innovate — shaping a future where thoughtful design leads to meaningful change.

Stay inspired. Stay curious. Keep designing a better tomorrow!



SPOTLIGHT



EDUCATION THAT INSPIRES CONFIDENCE

