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THE INTERNATIONAL
AWARD FOR
YOUNG PEOPLE



NPSC



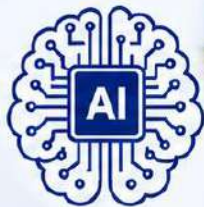
YOUTH RED CROSS
RAIGARH CHHATTISGARH



NATIONAL A&S SERVICE
SCHEME

Case Paper Presentation on

“AI in Real-World Contexts”



DATE – 01/08/2026



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EMPOWER



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ETHICS

NURTURING MINDS • BUILDING VALUES • SHAPING FUTURES

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1. Case Paper Presenter Details

❖ **Name of the Presenter(s):** - Ms. Monisha Shreejit & Mr. Prateek Kumar Singh

❖ **School Name:** O.P. Jindal School, Raigarh

❖ **Address of the School:** Kharsia Road, Raigarh, Chhattisgarh – 496001, India.

❖ **School Affiliation Number:** 3330040

❖ **State/UT:** Chhattisgarh

❖ **Concerned CoE:** CBSE Centre of Excellence (CoE), Bhubneshwar

❖ **Date:** 1st August 2026, Saturday

❖ **Contact Details of the Presenter(s):**

Presenter 1

Name: Ms. Monisha Shreejit

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Presenter 2

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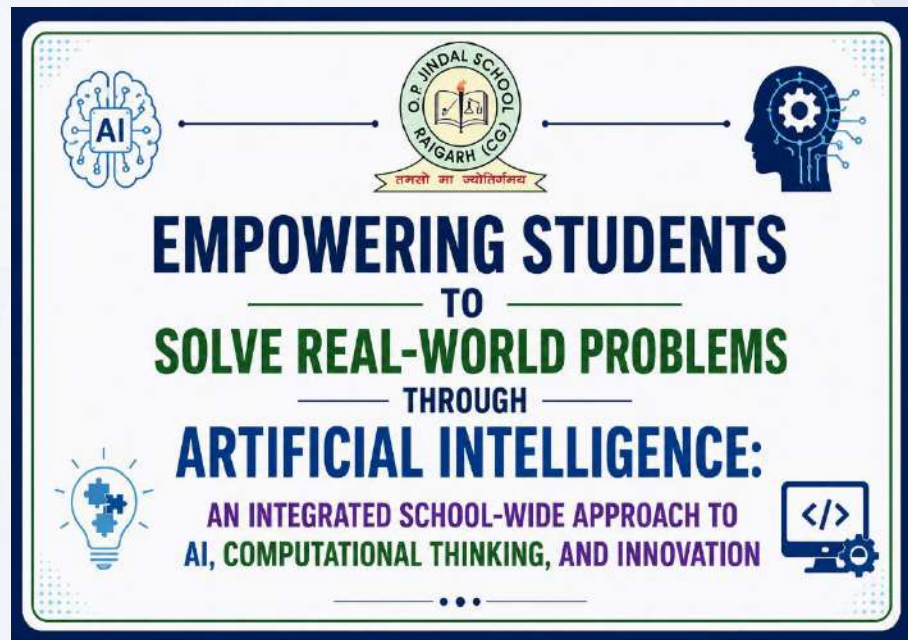
2. Title of the Practice

a. Title of the Practice -

Empowering Students to Solve Real-World Problems through Artificial Intelligence: An Integrated School-wide Approach to AI, Computational Thinking, and Innovation.

b. Corresponding Sub-Theme -

AI in Real-World Contexts



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3. Background / Context

a. Problem or Need or Challenge Addressed:

- ❖ At O.P. Jindal School, Raigarh, we observed that while students were comfortable using technology, they had limited opportunities to apply Artificial Intelligence and Computational Thinking to solve real-life problems.
- ❖ To bridge this gap, the school integrated AI through Skill Improvement Classes (SIC), Robotics, AI & Coding, under the Cybernetics & Robotics Club, and project-based learning.
- ❖ Students are encouraged to identify community challenges and develop practical solutions in areas such as road safety, environmental conservation, smart automation, and assistive technologies.
- ❖ This initiative has transformed AI from a classroom concept into a tool for innovation, creativity, and responsible problem-solving.



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3. Background / Context

b. Target Group and Timeline:

Implemented throughout the academic year, the program engages Classes III–VIII through weekly SIC classes and Classes IX–XII through Robotics, AI & Coding, innovation projects, exhibitions, and clubs, fostering Computational Thinking, AI literacy, creativity, and real-world problem-solving.





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4. Objectives

a. Learning Outcomes Targeted- The initiative was designed to enable students to move beyond theoretical understanding and apply Artificial Intelligence (AI) and Computational Thinking (CT) to solve authentic **real-world problems**. The key learning outcomes targeted through this practice are:

- Develop Computational Thinking and problem-solving skills.
- Apply Artificial Intelligence to solve real-world challenges.
- Strengthen critical thinking through project-based learning.
- Foster creativity and innovation using Robotics, AI & Coding.
- Promote collaboration, leadership, and communication skills.
- Build awareness of ethical AI and responsible digital citizenship
- Prepare students with future-ready skills.



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b. CT & AI Competencies Focused - The initiative intentionally integrates Computational Thinking and Artificial Intelligence competencies across classroom instruction, Robotics, Coding, Mathematics, Science, and innovation activities.

The major competencies developed include:

- **Computational Thinking:** Problem analysis, decomposition, pattern recognition, abstraction, algorithm design, and logical reasoning.
- **Artificial Intelligence:** AI fundamentals, data literacy, AI-based problem solving, prototype development, and ethical AI practices.
- **21st-Century Skills:** Critical thinking, creativity, collaboration, communication, digital literacy, and responsible innovation.



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5. Methodology

- ❖ At O.P. Jindal School, Raigarh, we believe that students understand Artificial Intelligence best when they **experience it** while solving real-life problems rather than learning it only through classroom lectures.
- ❖ Therefore, our AI learning journey begins with identifying challenges from students' everyday lives and encouraging them to develop technology-based solutions.



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a. Pedagogical Approach – Teaching Strategy Used:

- ❖ **Experiential & Inquiry-Based Learning:** Students identify real-life problems and apply AI, Robotics, and Computational Thinking to develop practical solutions.
- ❖ **Project-Based Learning:** Through Robotics Lab, AI & Coding, Cybernetics Club, Science & Mathematics Clubs, INSPIRE MANAK, and exhibitions, **students design, build, test, and refine innovative prototypes.**
- ❖ **Learning by Doing:** Students work on projects such as the Automatic Billing Shopping Cart, Smart Bicycle, Bike with Compulsory Helmet System, and Robotic Mulching cum Seed Drill Machine, transforming classroom concepts into real-world innovations.
- ❖ **Continuous Reflection:** Students present their projects, receive feedback, improve their solutions, and develop creativity, collaboration, and problem-solving skills.



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b. Role of Teachers – Facilitation, Guidance and Scaffolding

- ❖ **Mentors & Facilitators:** Teachers guide students to identify real-life problems, ask questions, and **develop innovative AI-based solutions** instead of providing ready-made answers.
- ❖ **Interdisciplinary Collaboration:** Computer Science, Mathematics, and Science teachers **jointly conduct Robotics, AI & Coding, and SIC classes**, integrating programming, data analysis, scientific concepts, and Computational Thinking.



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c. Role of Students – Student Participation and Ownership

- ❖ **Active Innovators:** Students identify real-life problems, research solutions, design prototypes, test ideas, and refine them through observation and feedback.
- ❖ **Ownership & Leadership:** Students present their innovations, demonstrate working models, justify their solutions, and strengthen their communication, collaboration, creativity, and problem-solving skills through exhibitions and competitions.



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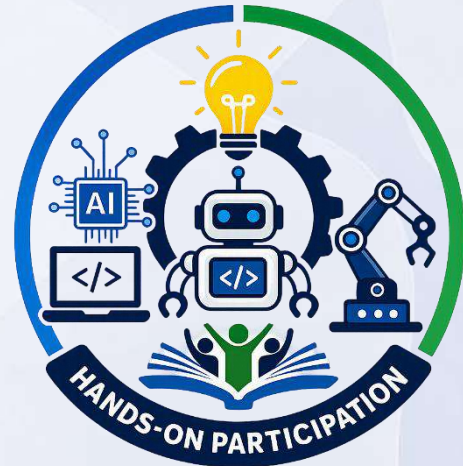
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c. Role of Students – Student Participation and Ownership

❖ **Hands-on Participation:** Through the Robotics Lab, AI & Coding, Cybernetics Club, Science Club, Science Exhibitions, and INSPIRE MANAK, students develop innovative projects such as:

- Mechanical Pitthu for Kedarnath Yatra
- Thermo-regulated Bike Seat
- Say Good Bye to Stinky Shoe
- Chakla with Belan Holder and Cutting Blades
- Robotic Mulching cum Seed Drill Machine
- Flip Electric Press for Child Protection
- Shopping Cart with Automatic Billing System
- Innovative Wash Basin System for Public Places.



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d. Curriculum Integration – Alignment with Curriculum

At O.P. Jindal School, Raigarh, Artificial Intelligence and Computational Thinking are integrated into the curriculum through our **weekly Skill Improvement Classes (SIC)**. Conducted **collaboratively** by the Computer Science, Mathematics, and Science Departments, SIC provides students with interdisciplinary, hands-on learning experiences that connect classroom concepts with real-world problem solving.

Key Highlights:

- **Weekly SIC Period:** Every middle school student attends one dedicated Skill Improvement Class each week.
- **Interdisciplinary Learning:** Computer Science, Mathematics, and Science teachers jointly deliver the program.



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d. Curriculum Integration – Alignment with Curriculum

Key Highlights:

- **Skill Areas Covered:** Robotics, AI & Coding, Mental Aptitude, Data Science (Class VIII), and Financial Literacy.
- **Learning by Doing:** Concepts are reinforced through the Robotics Lab, AI & Coding, Cybernetics Club, Science Club, Mathematics Club, INSPIRE MANAK, Science Exhibitions, and Innovation Challenges.
- **Real-World Application:** Students apply AI and Computational Thinking to develop solutions in areas such as road safety, smart agriculture, environmental conservation, automation, and public welfare.



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6. Description of the Practice / Implementation Process

a. Step-by-Step Description of Activities, Materials/Tools and Strategies Used:

Step 1: Identify Problems - Students identify real-life challenges through observations, discussions, surveys, and SIC activities.

Step 2: Build Skills - Weekly Skill Improvement Classes (SIC) develop competencies in Robotics, AI & Coding, Mental Aptitude, Data Science (Class VIII), and Financial Literacy.

Step 3: Hands-on Learning - Students gain practical experience in the Robotics Lab, Four High-Tech Computer Labs, Astro Lab, and Science Laboratories.



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Step 4: Develop Solutions - Students design innovative projects such as the Automatic Billing Shopping Cart, Smart Bicycle, Fire Fighting Robot, and Robotic Mulching cum Seed Drill Machine.

Step 5: Showcase & Improve - Projects are presented at Science Exhibitions, INSPIRE MANAK, Robotics Competitions, and the CBSE Skill Expo, where students receive feedback and refine their innovations.

Materials/Tools Used:

- Dedicated Robotics Lab
- Four High-Tech Computer Labs
- Astro Lab
- Science Laboratories
- AI & Coding Platforms
- Computers & Internet
- Low-cost recycled materials for prototypes



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Description of the Practices

❖ What We Do

We have different clubs, labs and dedicated skill development classes that are collectively working for the betterment of STEM subjects. List of clubs or activities that work under OPJS Raigarh.

Clubs and Labs:

- ✓ Astro-lab and Aeromodelling club
- ✓ Standard club
- ✓ Science Park
- ✓ Robotics lab and Electrical and Carpentry workshop
- ✓ Eco club
- ✓ Energy Club
- ✓ Cybernetics club
- ✓ Disaster management and safety club

Activities:

- ✓ Science Quiz
- ✓ Science Exhibition
- ✓ Models and Projects on different occasions and topics
- ✓ INSPIRE MANAK
- ✓ Agricultural practices (Both traditional and hydroponics)

O.P. JINDAL SCHOOL, RAIGARH (CG)
INNOVATING TODAY FOR A BETTER TOMORROW

EMPOWERING YOUNG MINDS THROUGH AI, COMPUTATIONAL THINKING AND REAL-WORLD INNOVATION

CLUBS AND LABS

- ARTIFICIAL INTELLIGENCE**: Explore the universe and design the future.
- STANDARD CLUB**: Learn standards, ensure quality, build a better tomorrow.
- SCIENCE PARK**: Hands-on science for curiosity and discovery.
- ROBOTICS LAB**: Design, build and program intelligent solutions.
- ELECTRICAL AND CARPENTRY WORKSHOP**: Building skills, creating solutions, making ideas real.
- ECO CLUB**: Think green, act green, live sustainable.
- ENERGY CLUB**: Conserve energy, innovate for a sustainable future.
- CYBERNETICS CLUB**: Code, connect, create the digital tomorrow.
- DISASTER MANAGEMENT AND SAFETY CLUB**: Be prepared, stay safe, save lives.

ACTIVITIES THAT INSPIRE

- SCIENCE QUIZ**: Encouraging inquiry, logical thinking and healthy competition.
- SCIENCE EXHIBITION**: Showcasing creativity, experiments and innovative models.
- MODELS AND PROJECTS**: Hands-on projects on different occasions and real-life topics.
- INSPIRE MANAK**: Nurturing young innovators to solve real-world problems.
- AGRICULTURAL PRACTICES**: Exploring both traditional farming and modern hydroponics.

LEARNING BY DOING – INNOVATING FOR THE FUTURE

- ROBOTICS MODELS**: Innovation in Action.
- FIRE SAFETY TRAINING**: Safety Today, Secure Tomorrow.
- NATIONAL SPACE DAY**: Inspiring Future Scientists.
- NATIONAL MATHEMATICS DAY**: Maths: The Language of AI.
- HYDROPONICS**: Smart Farming, Better Future.

OUR IMPACT

- HOLISTIC DEVELOPMENT**: Building skills, confidence and leadership.
- REAL-WORLD READINESS**: Preparing students for future challenges.
- INNOVATION CULTURE**: Encouraging creativity, research and entrepreneurship.
- SOCIAL RESPONSIBILITY**: Creating aware, responsible and contributing citizens.

Think. Innovate. Create. Inspire. Together, we build a smarter, safer and sustainable tomorrow.

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AI & ICT Enabled Learning Ecosystem

Teaching & Learning

- ❖ Online Zoom Classes during extreme weather conditions.
- ❖ AI-enabled curriculum and digital learning resources.
- ❖ Smart Boards for interactive classroom teaching.
- ❖ AI tools (ChatGPT, Gemini, Canva AI, MagicSchool AI, etc.) integrated into classroom practices.
- ❖ Smart Auditorium with advanced AV facilities for seminars, competitions, and digital learning.

Digital Infrastructure

- ❖ Resource-rich Computer Labs and staff computer network.
- ❖ School Website providing digital access to results, fee payment, assignments, study materials, event galleries, and student resources.



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Smart Digital School Management & Student Exposure

Digital Governance

- ❖ SIMSys ERP for seamless school administration and inter-departmental coordination.
- ❖ Digital attendance and online marks entry throughout the academic session.
- ❖ Google Forms for surveys, feedback, and stakeholder engagement.
- ❖ Dedicated WhatsApp groups for effective communication with students and parents.

Student Exposure & Future Skills

- ❖ AI-based competitions, coding challenges, and PPT design competitions.
- ❖ Participation in Olympiads (ICSO, etc.) and other external examinations.
- ❖ Exposure to emerging technologies through innovation projects and AI-based activities.



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Computer labs, Digital Library & Smart Classrooms

Our four high-tech computer labs, digital library, and smart classrooms provide students with seamless access to digital learning resources, AI tools, and interactive content. These technology-enabled learning spaces support research, collaboration, coding, and experiential learning across subjects.



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- ❖ The Fire Safety Training conducted by the Fire Department provides practical exposure to emergency response, disaster preparedness, and safe practices, helping students connect classroom learning with real-life situations.
- ❖ Students actively participate in hands-on **Robotics activities**, where they design and develop innovative working models to strengthen creativity, Computational Thinking, and problem-solving skills.





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Astro Lab and Aeromodelling activities

Throughout the year, on different occasions we conduct many aeromodelling and astronomical observations and events. Also we invite renowned persons on this field to talk and discuss with students. Some glimpses are given below:



From top left: Dr. Santanu Datta Director of Kalpana Chawla Centre for Space and Nano Sciences(KCCSNS) discussing with students; 2-6 night sky observation with students and parents; 7 and 8 Aeromodelling camp.

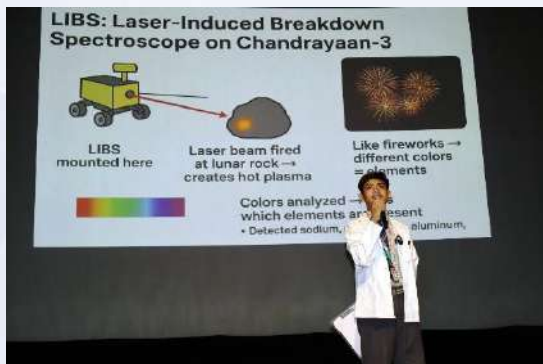
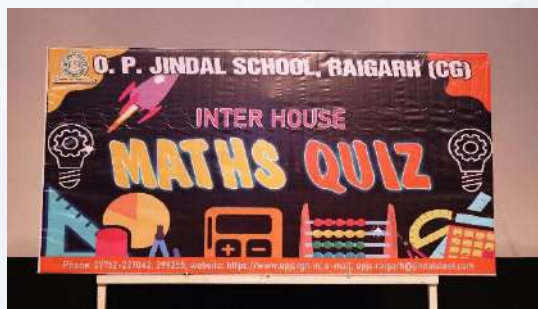




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National Space Day and National Mathematics Day provide students with opportunities to explore the foundations of Artificial Intelligence and Computational Thinking through interactive activities, problem-solving challenges, and scientific inquiry. These celebrations promote logical reasoning, analytical thinking, data interpretation, and innovation, inspiring students to apply mathematical and scientific concepts to solve real-world problems.



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7. Evidence-Based Impact

a. Step-by-Step Description of Activities, Materials / Tools and Strategies Used:

- Students have demonstrated significant improvement in Computational Thinking, Artificial Intelligence, Robotics, coding, and problem-solving skills through continuous participation in **SIC classes and project-based learning**.
- Since 2023, **five student projects have been selected every year** under the **INSPIRE MANAK** Scheme, reflecting the school's consistent focus on innovation and real-world problem solving. The selected projects are currently awaiting participation in the State and National Level Exhibitions.
- In 2025, three students won the Inter-School AI Championship, showcasing their proficiency in Artificial Intelligence and practical application of AI concepts.



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INSPIRE Award MANAK

Every year, the Department of Science and Technology (DST), Government of India, conducts the prestigious INSPIRE Award MANAK (Million Minds Augmenting National Aspiration and Knowledge) competition to promote science and innovation among school students.

Selected Ideas for the Session 2024–25:

- Lakshya Choudhary – Chakla with Belan Holder and Cutting Blades** A modified rolling board with storage and shape-cutting aids to improve hygiene and efficiency in kitchens.
- Kritarth Pandey – Robotic Mulching cum Seed Drill Machine** A dual-purpose agricultural tool to support small-scale farmers with cost-effective technology.
- Krishna Agrawal – Flip Electric Press for Child Protection** An electric press with a safety flip mechanism to prevent accidental burns and shocks in children.
- Ansh Tiwari – Shopping Cart with Automatic Billing System** A smart shopping cart that generates real-time bills to reduce long queues and improve customer experience.
- Adarsh Kumar Ojha – Innovative Wash Basin System for Public Places** A foot-operated, adjustable-height wash basin system designed to improve hygiene and water conservation.





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Awards & Activities

O.P. Jindal School has been recognized with prestigious awards such as the British Council IDS, PSY, and Standalone School of the Year for its excellence in education and innovation. The Cyber Crime & Safety Seminar by the DSP, Raigarh enhanced students' awareness of cyber security, safe online practices, and responsible digital citizenship.



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Digital Learning Resources

- ❖ To strengthen AI and Computational Thinking learning beyond the classroom, our teachers and students have developed innovative digital resources.
- ❖ The following PDFs showcase an AI Tools Lab Booklet made for teachers & students and an AI-based educational game (Jumping Jacks-V) designed to promote hands-on learning, creativity, and practical application of Artificial Intelligence.



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b. Student Products/Outcomes and Skill Development

- Students regularly design and develop innovative prototypes addressing real-world challenges.
- Every year, students prepare and exhibit numerous working models during the Annual Robotics Exhibition, providing them with opportunities to demonstrate creativity, innovation, teamwork, and presentation skills before parents, teachers, and visitors.
- Participation in INSPIRE MANAK, AI competitions, and robotics exhibitions has strengthened students' confidence, communication skills, design thinking, and innovation mindset.



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— INNOVATING TODAY FOR A BETTER TOMORROW —

EMPOWERING YOUNG MINDS THROUGH AI, COMPUTATIONAL THINKING AND REAL-WORLD INNOVATION

STUDENT PRODUCTS / OUTCOMES

Innovative Ideas • Real Solutions • Impactful Results

 INNOVATIVE PROJECTS Students design and develop models and solutions for real-world problems.	 OBSTACLE AVOIDING ROBOT	 AUTOMATIC BILLING SHOPPING CART	 BIKE WITH HELMET SYSTEM	 FIRE FIGHTING ROBOT
 PROBLEM SOLVING Applying AI, coding and IT skills to build smart and efficient solutions.	 ROBOTIC MILL CHURN CUM SEED DRILL MACHINE	 THERM-REGULATED BIKE SEAT	 VOICE CONTROLLED ROBOT	 SMART BICYCLE
 RECOGNITION & ACHIEVEMENTS Projects selected in INSPIRE MANAK State & National Level and various competitions.				
 IMPACT & SUSTAINABILITY Creating products that promote sustainability, safety and ease of life.				

Our students turn ideas into innovations, develop critical thinking, creativity and collaboration, and contribute to a better tomorrow.

SKILL DEVELOPMENT

Building Future-Ready Skills for Life and Beyond

 COMPUTATIONAL THINKING Breaking problems down and building logical solutions.	 CODING & PROGRAMMING Learning languages and programming efficient programs.	 ROBOTICS & AUTOMATION Designing, building and programming intelligent systems.	 DATA LITERACY & ANALYTICS Interpreting data, finding patterns and making decisions.	 COLLABORATION & COMMUNICATION Working in teams, sharing ideas and presenting solutions.	 CREATIVITY & INNOVATION Encouraging curiosity, design thinking and innovative mindset.
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We nurture skills, inspire innovation and empower every student to create a smarter, safer and sustainable world.



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Students design and develop innovative robotics projects using AI and Computational Thinking. They confidently present and demonstrate their working models to the audience. These activities enhance creativity, innovation, communication, and problem-solving skills.





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c. Student Engagement and Behaviour Changes

- ❖ Students actively participate in SIC classes, the Robotics Lab, AI & Coding activities, INSPIRE MANAK, and the Annual Robotics Exhibition, showing increased enthusiasm towards innovation and technology.
- ❖ Students have become more confident in identifying real-world problems, working collaboratively, and developing technology-driven solutions.
- ❖ The initiative has fostered a culture of innovation where students willingly explore, experiment, and transform ideas into functional prototypes, making AI and Robotics an integral part of their learning experience.

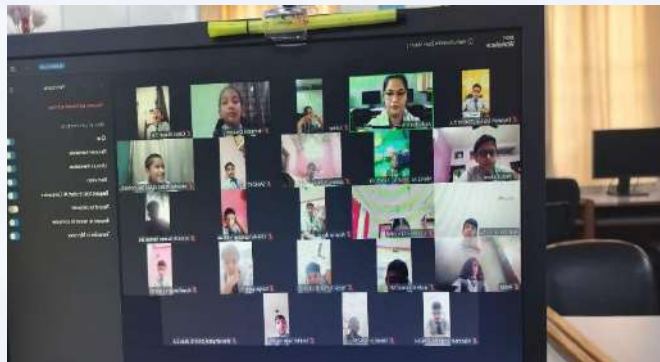




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Class III students learning block-based coding through fun, hands-on activities in our High-Tech Computer Labs, developing Computational Thinking, logical reasoning, creativity, and problem-solving skills from an early age.



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8. Novelty and Relevance

a. Unique Aspects of the Practice

- O.P. Jindal School has adopted a school-wide approach to AI education by integrating **Skill Improvement Classes (SIC)**, Robotics, Artificial Intelligence & Coding, Mathematics, and Science into a structured learning program.
- Every student receives one dedicated SIC period every week, ensuring continuous exposure to future-ready skills rather than one-time workshops.
- The school provides students with access to a dedicated Robotics Lab, four High-Tech Computer Labs, and an Astro Lab, enabling hands-on learning and innovation.
- Students are encouraged to identify real-life problems and develop practical solutions through Robotics, AI projects, INSPIRE MANAK, Science Exhibitions, and Innovation Challenges.



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b. Connection to Real-World Problems or Current Trends

- ❖ Student projects address real-life challenges such as road safety, smart agriculture, waste management, automation, environmental sustainability, and energy conservation, making learning meaningful and socially relevant.
- ❖ The initiative aligns with the growing demand for Artificial Intelligence, Robotics, Data Science, and Computational Thinking, preparing students with skills required for future careers.
- ❖ By integrating AI with real-world problem-solving, the school nurtures innovation, entrepreneurship, responsible technology use, and sustainable development, in line with the vision of NEP 2020 and the CBSE CT & AI framework.

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9. Inclusivity and Equity

a. Participation of Diverse Student Groups

- At O.P. Jindal School, Raigarh, the AI initiative is designed to be inclusive and accessible to all students. Through Skill Improvement Classes (SIC), every student participates in future-ready learning, ensuring equal exposure to Robotics, Artificial Intelligence & Coding, Mental Aptitude, Data Science (Class VIII), and Financial Literacy.
- Beyond the classroom, students from different grades and learning abilities actively participate in the Robotics Lab, Cybernetics Club, Science Club, INSPIRE MANAK, Science Exhibitions, AI Competitions, and the CBSE Skill Expo & Guidance Festival, based on their interests and potential. Teachers encourage collaborative learning and peer mentoring, enabling students to learn from one another while working on real-world projects.



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b. Gender Balance, Students with Disabilities, Underrepresented Groups

- ❖ The school actively promotes equal participation of girls and boys in Robotics, AI, coding, and innovation activities. Students are encouraged to take leadership roles in designing, building, and presenting projects, ensuring equal opportunities irrespective of gender or academic background.
- ❖ Teachers provide continuous mentoring and additional support to students who require guidance, creating a learning environment where every learner feels valued and confident to participate. The focus remains on ability, creativity, and innovation, ensuring that every student gets an opportunity to contribute and grow.



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10. Scalability and Replicability

a. Potential to Implement in Other Schools

- ❖ The OPJS AI model is practical and can be adopted by schools of all sizes. By introducing a weekly skill period, training teachers in AI and Computational Thinking, and promoting interdisciplinary, project-based learning, schools can gradually build a similar ecosystem. Existing computer labs can be upgraded with affordable robotics kits and open-source AI tools, making implementation both feasible and cost-effective.

- **Key Requirements** Weekly Skill Improvement Classes (SIC) or similar skill period. Teacher training in AI, Robotics, and Computational Thinking. Collaboration among Computer Science, Mathematics, and Science teachers. Gradual upgradation of existing computer lab into innovation spaces. Use of



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10. Scalability and Replicability

Key Requirements:

- Weekly Skill Improvement Classes (SIC) or similar skill period.
- Teacher training through CBSE CBPs, Skill Education programs, and AI/CT workshops.
- Collaboration among Computer Science, Mathematics, and Science teachers.
- Gradual upgradation of existing computer labs into innovation spaces.
- Use of affordable robotics kits, open-source AI tools, and local resources.
- Participation in INSPIRE MANAK, Science Exhibitions, and AI Competitions.



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b. Necessary Conditions for Replication

Successful implementation requires:

- ❖ A dedicated weekly skill period such as Skill Improvement Classes (SIC).
- ❖ Collaboration among Computer Science, Mathematics, and Science teachers.
- ❖ Basic ICT infrastructure with computers and internet access.
- ❖ Low-cost robotics kits or open-source platforms (e.g., Arduino, Scratch, AI tools).
- ❖ School leadership support for innovation, exhibitions, and project-based learning.
- ❖ Opportunities for students to participate in platforms such as Science Exhibitions, INSPIRE MANAK, Robotics Competitions, CBSE Skill Expo, and AI Challenges.



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c. Documentation Available

The implementation is supported through:

- ❖ SIC curriculum plans and lesson plans.
- ❖ Student project reports and portfolios.
- ❖ Photographs and videos of Robotics, AI activities, and exhibitions.
- ❖ Records of INSPIRE MANAK project selections.
- ❖ Documentation of participation in Inter-School AI Championship and CBSE Skill Expo & Guidance Festival 2026–27.
- ❖ School website and social media records showcasing student innovations and achievements.



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11. Sustainability and Cost Effectiveness

a. Long-Term Viability

- The initiative is sustainable because it is integrated into the school's regular academic programme through weekly Skill Improvement Classes (SIC), Robotics, AI & Coding sessions, and innovation activities. Continuous participation in INSPIRE MANAK, Robotics Competitions, Science Exhibitions, and the CBSE Skill Expo & Guidance Festival ensures that students remain engaged in innovation throughout the academic year. The collaborative involvement of the Computer Science, Mathematics, and Science Departments further strengthens the long-term continuity of the programme.



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b. Budget and Cost-Saving Methods

- ❖ The school effectively utilizes its existing infrastructure, including the Robotics Lab, four High-Tech Computer Labs, Astro Lab, and Science Laboratories, minimizing the need for additional investment. Most student projects are developed using reusable robotics kits, existing ICT resources, and affordable electronic components. The school also encourages students to innovate using economical and readily available materials.



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c. Use of Local or Low-Cost Materials

- ❖ Students are encouraged to design prototypes using cardboard, wooden pieces, reusable paper materials, old electronic components, motors, sensors, Arduino boards, and other locally available or recycled resources. This approach promotes creativity, reduces project costs, and demonstrates that meaningful AI and Robotics innovations can be developed using sustainable and cost-effective materials while fostering environmental responsibility.



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12. Learnings and Reflections

a. Challenges Faced and Solutions

- ❖ Implementing AI and Robotics alongside the regular curriculum involved challenges such as limited instructional time, budget constraints, diverse student learning levels, and the need for continuous teacher training. These were addressed through effective timetable planning, interdisciplinary teaching, optimal use of existing infrastructure, affordable resources, and ongoing capacity building. The initiative demonstrated that strong planning, collaboration, and hands-on learning are the key factors for successful AI integration.



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b. Key Insights and Improvements for the Future

The initiative reinforced our belief that students learn best when they solve real-world problems rather than merely studying concepts. Providing access to the Robotics Lab, High-Tech Computer Labs, Astro Lab, and Skill Improvement Classes has significantly enhanced students' creativity, collaboration, and innovation skills.

Moving forward, the school aims to:

- Expand AI-based interdisciplinary projects across more subjects.
- Strengthen collaborations with industry experts and higher education institutions.
- Increase participation and achievements in INSPIRE MANAK, CBSE Skill Expo, AI Competitions, and Robotics Championships.
- Introduce more advanced AI tools and emerging technologies to prepare students for future challenges.



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13. Conclusion

a. Summary of Impact

- ❖ The "AI in Real-World Contexts" initiative at O.P. Jindal School, Raigarh has successfully transformed AI learning from theoretical knowledge into meaningful real-world application.
- ❖ Through Skill Improvement Classes (SIC), Robotics, AI & Coding, innovation clubs, and project-based learning, students have developed Computational Thinking, creativity, collaboration, and problem-solving skills.
- ❖ The consistent selection of five INSPIRE MANAK projects every year since 2023, success in the Inter-School AI Championship 2025, and participation in the CBSE Skill Expo & Guidance Festival 2026–27 reflect the effectiveness of this approach.



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b. Future Vision or Next Steps

The school aims to further strengthen its AI ecosystem by:

- ❖ Expanding interdisciplinary AI projects across all grade levels.
- ❖ Introducing advanced AI tools and emerging technologies into classroom learning.
- ❖ Strengthening collaborations with industry experts, higher education institutions, and innovation organisations.
- ❖ Increasing student participation and achievements in INSPIRE MANAK, CBSE Skill Expo, Robotics Competitions, AI Championships, and other national-level innovation platforms.
- ❖ Continuing to nurture socially responsible innovators who use Artificial Intelligence to address real-world challenges and contribute to sustainable development.



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c. Questions / Feedback Welcome

We welcome suggestions, feedback, and opportunities for collaboration to further enhance this initiative. We believe that sharing best practices and learning from fellow educators will strengthen AI and Computational Thinking education, enabling more students to become innovative, ethical, and future-ready problem solvers.





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