

Science & Innovation Report – 2024





VidyaOne Demo College

Empowering Ideas, Driving Discovery

Overview

The **Science & Innovation Report 2024** showcases the institution's progressive achievements in scientific exploration, research contributions, and innovation-led initiatives across various departments.

Key Highlights

-  **34+ student-led innovations** in renewable energy, robotics, and sustainable agriculture.
-  **12 faculty research projects** funded under institutional and external grants.
-  **5 state-level science fair awards** won by our students.
-  Integration of **AI, Data Science & Environmental Technology** into UG curriculum.

Student Research & Projects

- **Low-Cost Water Purifier** using activated charcoal and nanotech membranes.
- **Eco Brick Innovation** made from non-recyclable plastic waste.
- **AI-enabled Attendance System** using facial recognition.
- **Hydroponics Prototype** for urban rooftop farming.

All prototypes were exhibited at the **VidyaOne Science Expo 2024** held in February.

Faculty Innovations

- Research on **smart irrigation** using IoT sensors published in national journals.
- Development of **biodegradable packaging materials** from algae.
- Interdisciplinary work on **climate change modeling** with real-time data simulations.

Industry & Research Collaborations

- MoUs signed with:
 - National Science Foundation (NSF)
 - GreenTech Labs Pvt. Ltd.
 - EduAI Systems
- Participation in **National Research Conclave 2024**

Innovation Ecosystem

- Functional **Innovation & Entrepreneurship Cell**
- Dedicated **Science Lab Incubator**
- Monthly **Innovation Bootcamps** for all science students
- Training sessions on **Patent Filing & Research Ethics**




Statistics

Parameter	2024 Data
Student Projects Submitted	102
Patents Filed	7
Research Papers Published	46
External Grants Received	₹18 Lakhs
Prototype to Market Conversions	3

Science Outreach

- **Rural Science Awareness Camps**
- **Workshops in Local Schools** on low-cost science experiments
- Science quiz competitions and model exhibitions conducted monthly

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VidyaOne Demo College continues to foster a vibrant scientific temperament and innovation mindset through its inclusive and impactful science initiatives.