Green Audit Report

2024-25

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Green Audit Report

2024 – 2025

The Green Audit Team of St. Aloysius College (Auto.), Jabalpur aims to create consciousness within and outside the Aloysian family regarding various environmental issues. The team prepares Eco Conservation Monitoring Report i.e. Green Audit Report under three broad features –

1. Green and Clean Campus
2. Eco-friendly approach: Reduce, Reuse and Recycle
3. Health and Hygiene

These three features were accomplished under following aspects -

- Green and clean campus
- Plastic free zone
- Best out of waste
- Reduce, Reuse and Recycle
- Tobacco free college premises
- Health and Hygiene

The team resolute to educate about various environmental issues and to propagate awareness in surroundings by organizing road shows, rallies, value education, mentoring, training programmes, lectures, seminars, workshops, etc. to entire Aloysian family and contiguous society.

Outputs of the Green Audit

Green and Clean Campus

A green and clean campus provides a healthy, sustainable learning environment by reducing pollution, encouraging eco-friendly habits like waste segregation, and fostering a connection to nature, reducing stress and improving mental health. It is a critical youth responsibility, serving as a practical training ground for sustainable living and shaping future environmental stewards. Following campus and community activities fostered a deeper understanding of cleanliness and green initiatives among students -

- **Certificate Course in Water Quality Monitoring:** Certificate course in Water Quality Monitoring was organized by Department of Botany and Microbiology. It commenced from first week of August 2024. It provides the skills necessary to detect, manage and prevent pollution in local water bodies, drinking sources which are central to a healthy environment.
- **Diploma Course:** Diploma Course on Water Quality Monitoring was organized by Department of Botany and Microbiology. It commenced from 1 November 2024. By

analyzing key parameters of water like pH, turbidity, chemical contaminants and microbial presence, individuals can identify pollutant sources and implement interventions to keep surrounding water, land and ecosystems clean.

- The BCA final-year students participated in a software development competition, which was held at Sofia College on 15 February 2025. They secured 2 position among 46 teams. They developed Fully Automated Hydroponic Grow System. Hydroponics is a modern farming method where plants grow without soil, using nutrient-rich water for higher yield and efficient resource use. It is useful in urban farming, smart agriculture and sustainable food production.
- On 10 August 2024, Samarpan Club organized a poster making competition**.** The event aimed to promote environmental awareness by encouraging students to express their creativity. Participants beautifully depicted the connection between motherhood and nature through art. The competition saw enthusiastic participation and helped instill a sense of responsibility towards the environment.
- The Samarpan Club at UIMC, RDVV, Jabalpur, organized a plantation activity on 15 February 2025 as part of its ongoing commitment to environmental sustainability. The event saw enthusiastic participation from faculty members, staff, and students, who collectively planted a variety of saplings across the campus grounds.
- As part of its commitment to environmental sustainability, Samarpan Club on 08 March 2025 organized a Tree Plantation Drive aimed at fostering ecological awareness among students. The activity was conducted at nearby community spaces (TFRI), where students and teachers collectively planted a variety of saplings, including medicinal and native species.
- The Nature Club organized a Rose Plantation Activity on 29 September 2024. A total of 80 saplings were planted during the activity. Rose plantation has a dual relationship with the environment, acting as an ecological contributor through urban greening and habitat creation, it helps filter air, reduce heat and provide aesthetic benefits that improve quality of life.
- The Nature Club, St. Aloysius (Autonomous) College in association with Indian Council of Agricultural Research – Directorate of Weed Research, organized a Parthenium Awareness Program on 22 August 2024. The Chief Guest of the program was Hon'able Dr. J.S. Mishra, Director, ICAR-DWR, Dr. P. K. Singh, Principal Scientist, ICAR-DWR and Dr. Archana Anokhe, Scientist in Entomology, ICAR-DWR were Guest of Honour. Students were also made aware of its bio-control agent *Zygogramma bicolorata* – Mexican

Beetle. For collaborative research work the Department of Botany and Microbiology signed an MOU with ICAR– Directorate of Weed Research.

- On the occasion of National Pollution Control Day 2 December 2024, the Nature Club, organized a Cleanliness Drive (Shramdaan) and an Awareness Program through Posters to spread awareness about pollution control and environmental conservation.
- The Nature Club organized a Slogan competition to celebrate Earth Day on April 22, 2025. The theme for Earth Day 2025 was "Our Power, Our Planet". A total of 26 students attended the event.
- A one-day Bonsai making competition was organized by Nature club on 19 October 2025.A total of 83 students participated in this competition.
- Environment Awareness Program (29 August 2024) was conducted by department of Economics in collaboration with Kadam Foundation, featuring the ceremonial planting of the 7349 *Ashoka pendula* saplings at Civic Centre Park.
- Cleanliness Pledge- On September 18, 2024, as part of the *Swachhata Hi Seva* initiative, the Cleanliness Pledge was administered by NSS unit. Sixty-eight students participated in this event, which aimed to reinforce their commitment to cleanliness and social responsibility, emphasizing the importance of personal and communal hygiene.
- A *Shramdaan* activity was conducted by NSS unit on September 21, 2024, at St. Aloysius College, where 48 students came together to contribute to environmental enhancement. This event illustrated the students' dedication to practical action, allowing them to engage in hands-on efforts to improve their campus and local surroundings.
- On September 22, 2024, NSS Unit organized a Cleanliness Awareness Camp in Gram Pipariyakala, with the participation of 48 students. The camp sought to instill the importance of cleanliness in daily life, involving participants in discussions and activities that fostered a deeper understanding of sanitation and hygiene. They engaged in meaningful discussions about environmental preservation, emphasizing the need to protect natural resources.
- On September 23, 2024, NSS Unit organized a *Swachata* Rally in the Pipariyakala locality. The event aimed to promote cleanliness and raise awareness about proper waste management. Through the rally volunteers learnt the importance of community engagement in cleanliness initiatives.
- In conjunction with the rally, a Shramdaan Program was conducted on the same day, focusing on cleaning local schools and temples. Forty-seven participants took part, showcasing their collective responsibility and commitment to maintaining cleanliness in their community.

- As part of the Cleanliness Awareness Campaign, a poster competition was organized by NSS Unit, drawing in 95 students who presented their creative ideas on achieving a cleaner India. This competition highlighted the students' artistic expressions while reinforcing their commitment to sanitation.
- On 1 October 2024, a human chain (*Manav Shrikala*) was formed by NSS students as part of another cleanliness awareness campaign, engaging approximately 100 students. This rally aimed to promote the significance of hygiene within the community, amplifying the message of cleanliness.
- On the same day, NSS students from St. Aloysius College participated in an event at Gurunanak Women's College an Awareness Rally. This collaboration allowed them to share insights on environmental responsibility with a larger audience.
- The Department of Zoology hosted Zoo Carnival 2024 as part of the Wildlife Week celebrations from October 1 to 7. Various competitions were organized, including: T-shirt painting, Quiz, Rangoli, Documentary presentations, Face Painting. These activities fostered creativity and also promoted important environmental conversations awareness. A total of 156 students participated.
- Department of Management on August 17, 2024, organized a poster-making, t-shirt-painting on the theme "Urban Jungle" to raise awareness of environmental issues.

Eco-friendly approach: Reduce, Reuse and Recycle

The "Reduce, Reuse, Recycle" approach helps the environment by minimizing waste, conserving natural resources, reducing greenhouse gas emissions, and preventing pollution. By decreasing demand for new products, this hierarchy lowers energy consumption, reduces landfill space, and protects ecosystems for future generations. Some of such activities showcasing the concept of 'Reduce, Reuse, Recycle' are -

- **Certificate Course on Mushroom Cultivation: Fundamental to Advance Techniques:** Certificate Course on Mushroom Cultivation: Fundamental to Advance Techniques commenced from 21 September, 2024. It was organized by Department of Botany and Microbiology. Mushroom cultivation converts lignocellulosic agricultural residues into protein-rich food while recycling nutrients and reducing waste, offering a sustainable, eco-friendly alternative to burning agricultural byproduct.
- **Internship on Oyster Mushroom Cultivation:** An internship on 'Oyster Mushroom Cultivation' was organized by Department of Botany and Microbiology for the students of O.F.K Government College from 20 -30 January 2025. The property of edible mushroom fungi to convert complex organic compounds into simpler ones is used to transform the

useless agricultural waste into valuable product. It is also an environmental friendly method to reduce the nutrient level of agricultural wastes as acceptable range and to be used as manure.

- National Science Day- The department of Chemistry celebrated National Science Day on 28 February, 2025 sponsored by MPCST, Bhopal. One of the activity was to make Best Out of Waste. The events were conducted from 26 February to 3 March, 2025 on the Topic "Empowering Indian Youth for Global Leadership in Science and Innovation for Viksit Bharat" Nearly 350 students participated in the events. By turning unwanted, everyday items like bottles and old papers into functional crafts or decorative items, students actively learn the value of reducing waste and the practicality of reusing materials.
- "Ecofest 2025" was organized by Nature club on 21-22 February 2025 with the theme 'A Random act of green', highlighted about Sustainability. Competitions like Photography, Poster making, Organic rangoli, Meme making and Quiz: Kaun Banega Scientist were held on 21-22 February marked the Grand Finale of the event beginning with Treasure Hunt and setup of stalls. Ecofriendly Jute and bamboo products, pickles, jams, jellies, Atar were made by the students of Botany. About 150 students participated.
- On 18th February 2025, an Educational Trip was organized by Nature club to Directorate of Weed Science (ICAR DWR), Maharajpur, Jabalpur, Madhya Pradesh. A 'Farmers' Fair cum exhibition' displayed various ecofriendly and sustainable agricultural practices, products and advancements that motivated students. It showcased a wide range of biofertilizers and biopestisides that act as a means to reduce harmful chemical usage in agriculture.
- The Department of Zoology organized a three months Vocational Course on 'Advancements of Vermicomposting' for B.Sc. IV Sem students under which vermicompost and vermiwash was prepared from 6 January to 5 April 2025. Vermicomposting is a specialized form of organic recycling that uses worms to convert household and agricultural food waste into nutrient-rich fertilizer. It acts as a sustainable waste management tool by breaking down organic matter—like kitchen scraps and manure—into worm castings (or vermicast), effectively transforming waste into a valuable soil amendment.
- Department of Management on August 17, 2024, organized best-out-of-waste event on the theme "Urban Jungle" to raise awareness of environmental issues. Best-out-of-waste activities motivate students by transforming the abstract concept of environmental conservation into a fun, creative, and tangible experience.

- The hackathon was sponsored by Sponsored by National Jute Board (NJB), Ministry of Textile, Govt. of India and was organized from 16 and 17 January, 2025 at Indian Institute of Packaging, Salt Lake City, Bidhan Nagar, Kolkata. A team of four students and one teacher participated in this competition. They presented and developed a prototype 'Ecofold', a multi fold jute bag. It helps to reduce use of plastic bags.

Health and Hygiene

Health and hygiene are deeply intertwined with the environment, as clean surroundings (air, water, and soil) are fundamental for preventing disease and promoting physical and mental well-being. Environmental hazards like pollution and poor waste management directly cause illnesses, while good hygiene—personal and structural—mitigates environmental health risks.

- Department of Botany and Microbiology organized a Guest Lecture by Dr. Rohit Sharma, Dean, R & D, SAM Global University, Bhopal. He delivered his talk on "Human Disease: A Perspective" on 20 August 2024.
- The BCA final-year students participated in the competition titled "AI AUTONOMOUS HACKATHON 2025", which was held at Siddharth Engineering College (Deemed to be University), Andhra Pradesh, on 6-7 February 2025. They secured 5 position among 147 teams. They developed a Healthcare Chatbot.
- The BCA final-year students participated in a software development competition, which was held at Sophia College, Ajmer, Rajasthan on 15 February 2025. They presented a paper on innovative idea of fully automated hydroponic grow system. They secured 2 position among 46 teams.
- One Day training program was conducted by department of Chemistry on 26 March, 2025 where students learnt preparation of herbal face wash, face cream, lip balm, hand sanitizer, perfume and pain relief balm for MA English and MSc Computer Science students.
- The Nature Club organized a poster competition on 27 August 2024, under the banner of Disease Awareness Program. The theme of the poster competition was Viral Diseases: Breaking the Chain of Infection.
- A Cancer Awareness Program was organized by department of Biotechnology on the World Cancer day, 4 February 2025. In which posters on cancer related issues were prepared and presented by the UG and PG students.
- Internship on Animal tissue culture techniques was organized by department of Biotechnology. A Total of 18 students of B.Sc. IV Year from Government Home Science College Jabalpur were trained on basic techniques of Animal Tissue Culture. It was of a four weeks intensive training program.

- The Department of Biotechnology organized a visit to Shalby Hospital for vocational and M.Sc. students on 29 March 2025. A total 65 students and 05 faculty members visited the hospital.
- On International Yoga Day (21 June 2024), 153 cadets participated in a yoga session at 7:00 AM, promoting health and wellness and inspiring others to adopt yoga as part of their daily routine.
- A Blood Donation Camp was held on 18 January 2025 by NCC unit in collaboration with the Red Cross Society, during which over 150 students donated blood. This initiative aimed to support critical medical needs, including surgeries, trauma care, and chronic illness treatment.
- On September 24, 2024, a speech competition was organized by NSS Unit, fostering awareness about hygiene. A total of 95 students delivered speeches on various relevant topics. On the same day, a quiz competition attracted the same number of participants, promoting discussions on the societal impact of cleanliness.
- On 5 August, 2024 The Red Ribbon Club and Department of Zoology in collaboration with Jayaraj Annapackiam College for Women, Theni Tamil Nadu organized an International Awareness Programme titled "The Global Impact of HIV/AIDS and Its Prevention Strategies." This initiative aimed to educate participants about the worldwide implications of HIV/AIDS.
- On August 13, 2024, the Red Ribbon Club in collaboration with the Department of Zoology conducted an AIDS Awareness Program to educate the community about HIV/AIDS on the occasion of International Youth Day.
- The Red Ribbon Club and the Department of Zoology organized various competitions from 30 November to 2 December 2024 on the occasion of World AIDS Day (1st December). A human chain was formed to raise awareness about AIDS among students. A total of 185 students benefited from this initiative.
- On the occasion of National Science Day, i.e., on 1 March 2025, department of Zoology organized a health awareness programme for teaching and non-teaching staff in which height and weight were measured and BMI was calculated. Total beneficiaries were 35.

Others

- Seminar- The department conducted a National Seminar on “Envisioning Viksit bharat @ 2047: Achieving Environment Sustainability through Collaboration” sponsored by ICSSR,

New Delhi on 23-24 August 2024. There were 150 participants in the seminar and 45 papers were presented.

- Dr. Smarika Lawrance, Dr. Shweta Likhitkar and students Ms. Tanya Singh, Ms. Shraddha Haldkar, Ms. Mitali Singh and Ms. Muskan Jain of M.Sc. IV semester Chemistry received the Best Poster presentation Award for paper entitled "Understanding the management of protected areas and biodiversity" at International Conference on Novel Materials & Applications (ICNMA-2025) held on 5-6 February, 2025, at the Department of Applied Physics Jabalpur Engineering College, Jabalpur (M.P.)
- The Department of Biotechnology conducted a massive ten days robust internship for the undergraduate students of Home Science College, Jabalpur. About 43 students underwent the internship where they learned about the basics of Plant Tissue Culture. Plant tissue culture helps the environment by enabling rapid, large-scale production of disease-free plants, conserving endangered species, and reducing agricultural chemical usage. This technology supports ecological restoration and sustainable farming by facilitating the mass production of drought-tolerant and resilient plant varieties in controlled environments.
- Twelve UG & PG Students and one faculty member from department of Zoology attended the Training and Capacity Development Programme through Technology Development for Entrepreneurs and Fish Farmers organised by College of Fishery, Science N.D.V.S.U, Jabalpur with collaboration of ICAR- NBGR, Lucknow under ST Component on 18.02.25.
- On 1 March 2025 the Department of Zoology organized an educational visit for P.G. students to Dumna Nature Reserve, Jabalpur. The objective of the programme was to study the diversity of the species of the reserve. The total beneficiaries were 24.
- Five PG students from department of Political Science presented papers in National Seminar held at Jabalpur and four PG students published paper in edited book, "*G20 and Green Growth: Collaborative Action for Sustainable Future Under Saptrishi Budget 2023."*
- On 18 July 2024 a display of prototypes was organized in the boot camp from 1:30 to 06:30 PM at Ekatm Bhawan, Incubation Center, Rani Durgavati University, Jabalpur, Madhya Pradesh. Our students from Design Innovation Centre displayed a total of seven prototypes (ecofriendly, herbal and few products made out of waste) from our college.
- On 27 August, 2024, a Demo Day was organized to display and demonstrate prototypes and Start-up ideas by students in the Incubation center 'Nirman'. 19 ecofriendly prototypes were displayed for the students to observe and learn.
- Students of B.Sc. IV Year (Hons.) Industrial Microbiology did their dissertation in ecofriendly and sustainable topics.

Roll No.	Name of the Candidate	Dissertation
211711	NIKITA NONWAR	Preparation of nanoparticals – embaded nanogel from silver nanoparticles of *Tephrosia purpurea*
211714	ADITI SAMADHIYA	Production of paper from organic waste and its microbial degradation
211716	AAYUSH TIGGA	Green gold: Optimizing Algae-based biofuel production for a sustainable future
211717	HARSHIT VISHWAKARMA	Exploring metabolites derived from *Parthenium* sps. For ecofriendly weed and microbial management
211719	KHUSHNUDA ANSARI	Formulation of polyherbal antifungal cream

Some Glimpses



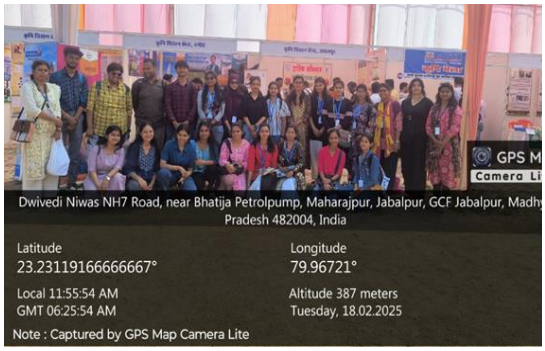


Bonsai Training





Participation in Residential Jute hackathon – Ecofold Jute bag





Farmers' Fair cum exhibition





Internship in Mushroom Cultivation





Pen made of bioplastic **Green Gold – fuel from algae**

Few ecofriendly prototypes displayed in demo day and boot camp



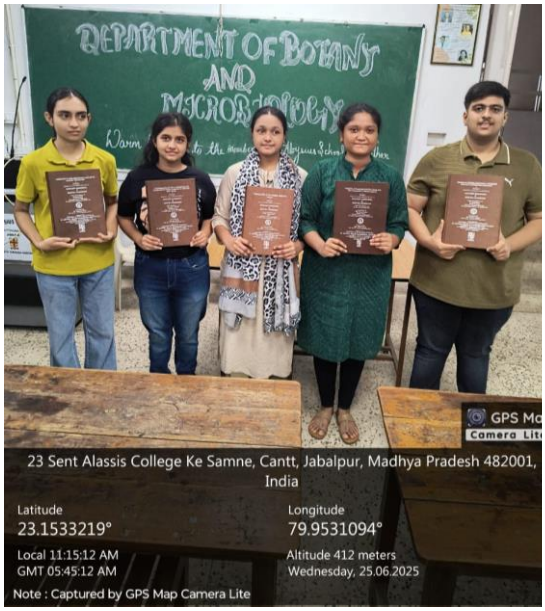


Demo Day





Participation in Boot Camp



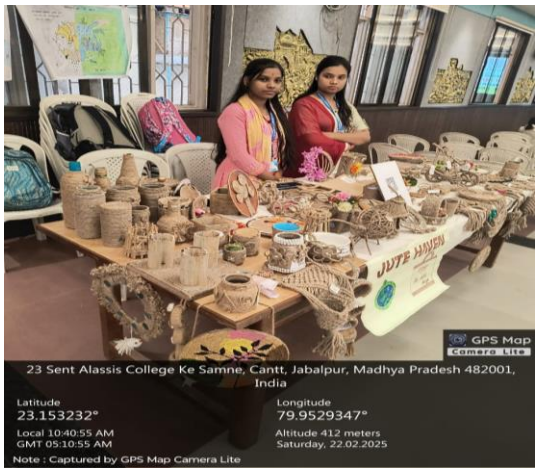


Sustainable student projects **Certificate course inVermicomposting**

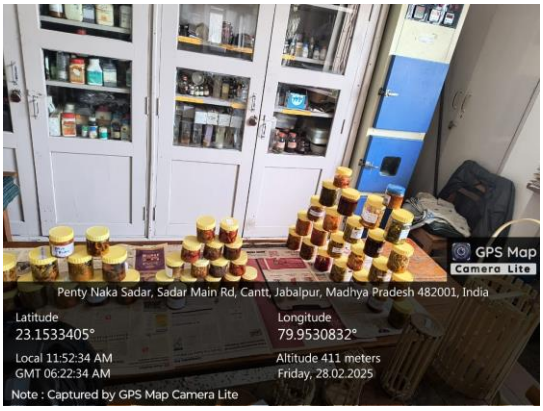




Certificate Course in Mushroom Cultivation



Display of ecofriendly products during Ecofest



Display of ecofriendly products during Science Day



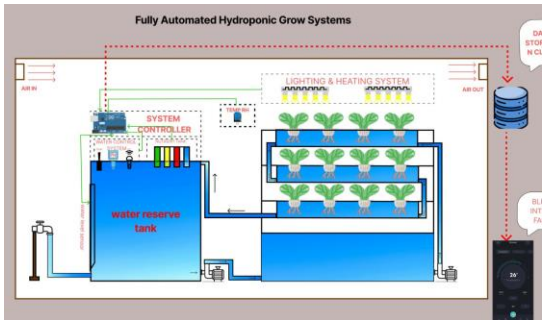


Parthenium Awareness Programme





Plantation activities by Samarpan Club



Automated Hydroponic Grow System demonstrated in Sofia College, Ajmer



Visit to Dumna Nature Park



Health Checkup Camp



AIDS Awareness Programme –Red Ribbon Club