



Cultivating a Legacy of Innovation, Illumination, and Inspiration Department at a Glance

The Department of Science at St. Xavier's College Jaipur is a dynamic hub of academic and research excellence, offering comprehensive programs across diverse scientific disciplines. Supported by advanced laboratories, including Microbiology and Plant Tissue Culture, the department facilitates interdisciplinary research and direct industry exposure. Beyond academic rigor, we prioritize innovation, competency development, and entrepreneurship to foster critical thinking. Our holistic education prepares all students to excel in scientific research, industrial applications, and successful entrepreneurial ventures.

XSI-Society

The XSI Society serves as a dynamic hub to innovate, illuminate, and inspire scientific pioneers. We advance modern research by leveraging the SEED Money Project to transform student hypotheses into rigorous academic publications. Fostering professional and personal growth, we accelerate capabilities through peer reviews, specialized coursework, and immersive laboratory excursions. Ultimately, this ecosystem channels intellectual energy into societal impact, balancing empirical precision with ecological responsibility for a sustainable, curious future.



HOD's Message



We are thrilled to present the fifth edition of our newsletter, curated under the inspiring theme, "Innovate, Illuminate & Inspire." Bringing this issue to fruition fills us with immense pride, highlighting the remarkable contributions of our talented students and faculty. This edition celebrates our collective synergy and vibrant impact as a department. May this publication serve as an intellectual wellspring, reinforcing our power to drive transformative change across the scientific landscape.

Dr. (Sr.) Ligimol Louis CMC



St. Xavier's College Jaipur
Affiliated to University of Rajasthan, Jaipur
Accredited with A Grade by NAAC (First Cycle, 2025)
An ISO 14001:2015 Certified Institution



From the Leadership Desk

Manager

It brings me immense joy to introduce this newsletter, aligned with our guiding vision: Innovation, Illumination, and Inspiration. Navigating the frontiers of discovery, I am inspired by our students and faculty addressing global challenges through science. This chronicle stands as a testament to our synergy, showcasing how we innovate through impactful research, illuminate minds by bridging modern inquiry with sustainability, and inspire our community to rise as visionary thinkers. Keep up the exceptional work, dear Xavierites!



Rev. Fr. John Ravi SJ

Principal



Dr. (Fr.) Arokya Swamy SJ

St. Xavier's College Jaipur, stands as a beacon of excellence, committed to nurturing brilliant minds through Innovation, Illumination, and Inspiration. It brings me immense joy to introduce this science newsletter, a platform showcasing the analytical talents of our future scientific professionals. Here, students innovate across new frontiers, illuminate the academic landscape, and inspire our community toward scholarly excellence. Heartiest congratulations to the dedicated editorial board and contributors for bringing this exceptional edition to life.

Vice Principal



Dr. (Fr.) Reymond Cherubin SJ

I extend my heartfelt congratulations to the Department of Science on the publication of its newsletter. It is a commendable initiative that reflects the department's commitment to academic excellence, scientific curiosity and the holistic development of students. The dedicated efforts of the faculty and students in documenting and sharing their achievements, research and activities are truly appreciable. I am confident that the department will continue to encourage innovation, nurture young scientific minds and inspire students to contribute meaningfully to society. My best wishes to the entire Department of Science for continued growth and success.

Vice Principal -Academics



Dr. (Fr.) Leo Arockia Raj S SJ

It is a privilege to unveil the latest edition of "XSI TIMES," a brilliant celebration of our core values: Innovation, Illumination, and Inspiration. This publication showcases how our community innovates through groundbreaking research, illuminates minds by connecting science with sustainable wisdom, and inspires through academic achievements. May readers derive deep knowledge and motivation from this scientific tapestry. Heartfelt appreciation goes to the dedicated faculty, students, and editorial team for bringing this exceptional edition to life.

Department Activities

Distinctiveness

- Access to e-Resources
- Experiential Learning
- Advanced Research Laboratories
- Industrial and Field Visits
- Advanced Learning (SWAYAM MOOC)
- Mentor-Mentee System
- Seed Money and Internship
- SDG and IKS
- Competitive Exam Coaching & Guidance
- Student Exchange Programs for Global Exposure
- Certificate Courses and Value Added Courses
- Careers Through Green Innovation & Research
- Indulgence of Students through Seminars & Presentations
- Interactive sessions by eminent Professors & Researchers

Our Eminent Guests



Prof. Krishnendu Acharya
Department of Botany
University of Calcutta.
World's Top 2% Scientists list
by Stanford University

Dr. Meghendra Sharma
Pro Vice-Chancellor
Chatrapati Shivaji Maharaj
University, Navi Mumbai.
Member in Board of Governors at MNIT
Jaipur



Dr. Sujana K. A.
Scientist E
Botanical Survey of India (BSI),
Coimbatore.

Shri. V Saravana Kumar, IAS
Divisional Commissioner
Jaipur Division (Rajasthan),
Secretary & Commissioner to the
Science & Technology Department



Achievement of the Department

Best Science College In Rajasthan

St. Xavier's College Jaipur has been awarded a Certificate of Achievement by Higher Education Review, recognizing it as one of the Top 10 Promising Science Colleges in Rajasthan. The accolade highlights the institution's exceptional academic expertise, its capability to adapt to the evolution of the educational field, and its transformational impact on students' careers.



CARBON INVENTORY CAMPAIGN
DEMO AT CSIR-CEERI, MALVIYA NAGAR
FOLLOWED BY FIELD DATA COLLECTION
AT VIGYAN BHARTI RIICO PARK, SITAPURA

Academic Awards



Receiving the Pride of the
Department Award



Receiving the award of Excellence
in Academics

Five outstanding students from our department were selected for the Carbon Inventory Campaign, showcasing our commitment to environmental sustainability excellence.

Department Highlights



XSI-TECH Youth Innovation Conclave

The Department of Science and XSI Society at St. Xavier's College Jaipur proudly announce XSI-TECH, a Youth Innovation Conclave themed "Sustainable Development & Viksit Bharat @2047." As the annual Science Department Fest, this dynamic event ignites passion for student-led scientific innovation and fosters a robust scientific temper. Through immersive, inquiry-based learning, XSI-TECH nurtures youth creativity and cultivates a profound sense of responsible citizenship.



National Science Day Program

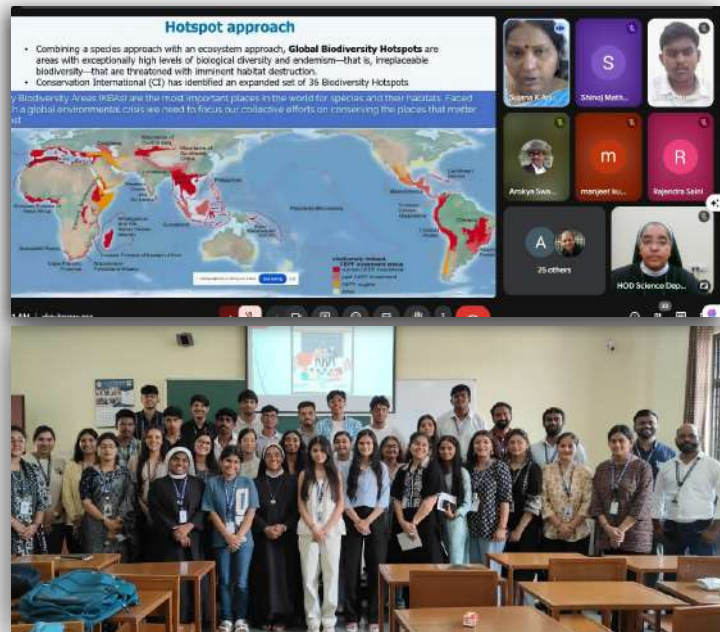
To celebrate National Science Day on February 28, 2026, the Department of Science at St. Xavier's College Jaipur organized an educational visit to Manipal University, Jaipur And MNIT. Anchored to the theme "Science for a Sustainable Future," the excursion aligned with global initiatives including SDG 4, 9, and 13. This immersive experience enhanced students' understanding of advanced scientific research and environmental monitoring, while successfully fostering the critical thinking skills needed for a progressive and sustainable future.



Skill Based Training Program

Dr. Antony Nitin Raja participated in the six-day training program on Microbial Techniques for Soil, Fungi, and Biofertilizer. Studies was conducted under the guidance of Prof. Krishnendu Acharya, Department of Botany, University of Calcutta, at the Botany Laboratory Training Centre. The program provided hands-on experience in microbiological techniques, media preparation, microbial isolation, and their applications in sustainable agriculture, along with field exposure and basic molecular studies.





The Department recently organized dynamic activities prioritizing holistic development and ecological sustainability. Following an insightful orientation day, a Nutritional Day used health questionnaires to emphasize dietary awareness. Student leadership was empowered through council elections, entrusting key academic and non-academic responsibilities. Furthermore, environmental stewardship took center stage through a science conference on sustainability, a nature conservation webinar, and a seed-bombing drive. These initiatives advanced Sustainable Development Goals (SDGs) while cultivating a deeply responsible academic community.

Laboratories and Research Facilities

The Department of Science at St. Xavier's College Jaipur features premier labs for Botany, Zoology, Chemistry, and Physics, alongside specialized Microbiology and Tissue Culture spaces. Furthermore, its Central Instrument Laboratory offers advanced apparatus like centrifuges, rotary evaporators, deep freezers, sonicators, and furnaces. These state-of-the-art resources empower students to conduct sophisticated, hands-on projects, significantly enhancing their practical skills and fostering a strong research aptitude for the future.



Studies Beyond Classroom

Beyond the regular curriculum, immersive field, industry, and institutional visits provide students with vital real-world exposure, seamlessly bridging academic theory with practical, industry-driven insights.



Students Achievements

STUDENT TRIUMPHS & MILESTONES



Our students brought immense pride to the institution. Ms. Aakanksha Salaria (B.Sc. Sem II) earned the Elite+Gold+Topper distinction, while Sr. Karina, CMC (B.Sc. Sem II) secured Elite+Silver in NPTEL/SWAYAM exams. Furthermore, Ms. Mansi Chand Thakur (B.Sc. Sem IV) made history as St. Xavier's College Jaipur's first girl cadet selected for the Republic Day Camp 2026.

Student Research Highlights

The successful participation and research presentations by B.Sc. Semesters II, IV, and VI students at the National Symposium—highlighted by Ms. Aakanksha Salaria, Ms. Anisha Bharati, and Mr. Aditya Bishnoi winning the prestigious Best Paper Presentation Award, alongside the active participation of Mrs. Yasti Sharma and Sr. Karina Sabhasundar—underscore a remarkable culture of academic excellence. This pivotal event provides invaluable national exposure, effectively bridging classroom knowledge with real-world scientific inquiry.



Ms. Anisha Bharti Ms. Akansha Salaria
B.Sc. SEM II



Mr. Aditya Bishnoi
B.Sc. SEM II



Ms. Yasti Sharma
B.Sc. SEM II



Sr. Karina Sabhasundar CMC
B.Sc. SEM II

Sustainable Development Goal Practices

Department of Science remains deeply committed to environmental stewardship by implementing key on-campus initiatives that directly advance the United Nations Sustainable Development Goals (SDGs). The institution drives SDG 6 (Clean Water and Sanitation) through an efficient water harvesting system and champions SDG 12 (Responsible Consumption and Production) via dedicated waste management, bio composting, and vermicomposting units. Furthermore, the college fosters sustainable agriculture under SDG 2 (Zero Hunger) through organic farming and its specialized mushroom unit (the Mycofarm).



Cultivating innovation: Showcasing the initial setup of the Mycofarm alongside its successful yield of fresh mushrooms.



Organic Farming

This eco-friendly ecosystem is beautifully complemented by a community-centric initiative that sources fresh vegetables directly from local farmers for campus faculty, simultaneously ensuring access to healthy produce and supporting sustainable local livelihoods.

UBA Initiatives

Under the Unnat Bharat Abhiyan initiative, faculty members empower local villagers with sustainable farming methodologies and biopesticides. Complementing these efforts, the new Farm-to-Table program directly sources fresh vegetables from local farmers for campus staff, promoting healthy nutrition while actively supporting rural livelihood and sustainable agriculture.



Our Educator & Experts



Our Education Partners



Editorial Board



Coordinator

Dr. (Sr.) Ligimol Louis CMC
HOD, Science



Editor-in-Chief

Mr. Shinoj Mathew
Assistant Professor, Botany



Student Coordinator

Mr. Alen Varghese
B.Sc. 3rd Year

With immense pride, the editorial board presents this edition of XSI-Times, the official newsletter of the Department of Science, St. Xavier's College Jaipur. Beautifully woven around our core theme, Innovate, Illuminate, Inspire, this issue sparks scientific curiosity. We showcase how our community innovates through pioneering research, illuminates young minds with academic excellence, and inspires by celebrating the remarkable achievements of our talented students. Together, these collective efforts seamlessly bridge academic learning with vital societal needs.