

INTERNATIONAL CONFERENCE



NexGen Z Bio Resources Frontiers for Sustainable World

Organised
by

ASANSOL GIRLS' COLLEGE

DEPARTMENT OF SCIENCES

under the aegis of IQAC

26th & 27th February 2026

Our Patron



SHREE MOLOY GHATAK
MINISTER
DEPARTMENT OF LABOUR,
LAW AND JUDICIAL
GOVERNMENT
OF
WEST BENGAL



**DR SWATI
CHAKRABORTY**
PRINCIPAL
ASANSOL GIRLS'
COLLEGE



DR BIRU RAJAK
IQAC-
COORDINATOR,
ASANSOL GIRLS'
COLLEGE

About the conference

Conference aims to provide an interdisciplinary platform integrating biosciences with chemistry, physics, mathematics, and computational sciences. The conference will highlight the following themes: interdisciplinary approaches in biosciences, microbial genomics and metagenomics, antimicrobial resistance with special reference to HAIs, and recent advances in medical diagnostics, imaging, and AI-based disease prediction. Key focus areas also include environmental biosciences and climate change, bioinformatics, biotechnology and food science, sustainable agricultural biology, plant metabolites and aroma volatiles, and the role of green chemistry in sustainable biosciences. The conference seeks to promote scientific collaboration, knowledge exchange, and sustainable innovations at national and international levels.

Themes & Sub themes

- 1. Interdisciplinary Approaches in Biosciences: From Molecules to Systems.**
 - Applications of biosciences in medicine and agriculture.
 - Integration of molecular biology, cell biology, and physiology.
 - Computational and mathematical modeling of biological systems
- 2. Bioinformatics, Microbial Genomics and Metagenomics.**
 - Genome sequencing.
 - Microbial diversity and evolution.
 - Applications of metagenomics in agriculture, industry, and healthcare.
- 3. Antimicrobial Resistance: Hospital-Acquired Infections (HAIs)**
 - Molecular mechanisms of antimicrobial resistance (AMR)
 - Epidemiology and transmission of HAIs
 - Advancing frontiers in animal ecology, genetic diversity, and habitat restoration.
- 4. Medical Diagnostics and Imaging.**
 - Advances in molecular diagnostics.
 - Medical imaging.
 - AI-based diagnostic imaging and disease prediction.
- 5. Environmental Biosciences: Modeling Climate Change and Ecosystem.**
 - Impact of climate change on biodiversity and ecosystems.
 - Biogeochemical cycles and ecosystem.
 - Conservation and sustainable ecosystem.
- 6. Application of Nanotechnology in Emerging Science.**
- 7. Biotechnology and Food Science.**
 - Plant biotechnology in food improvement.
 - Genetically improved crops.
 - Fermented foods and beverages
- 8. Sustainable Development in Agricultural Biology.**
 - Sustainable crop production.
 - Organic farming and eco-friendly agriculture
 - Role of plants in soil health and soil fertility.
- 9. Plant Metabolites and Aroma Volatiles.**
 - Primary and secondary metabolites in plants.
 - Application of Medicinal and aromatic plants in the pharmaceutical industry.
 - Applications of Plant metabolites in agriculture and industry.
- 10. Green Chemistry and Sustainable Biosciences**
 - Role of green chemistry in healthcare, agriculture, and environment.



Asansol Girls' College is a reputed institution of higher education committed to empowering women through quality education and holistic development. The college offers a wide range of undergraduate programmes in Arts, Science, and Commerce, with special emphasis on the Departments of Bioscience, including Botany, Zoology, Microbiology, and related life science disciplines. These departments are supported by experienced faculty, well-equipped laboratories, and research-oriented teaching that encourages scientific temper and innovation among students. With a rich library, modern infrastructure, and a supportive academic environment, Asansol Girls' College nurtures critical thinking, practical skills, and social responsibility, shaping confident and competent graduates who contribute meaningfully to society and the scientific community.

Contact Us

✉ conference@agc.ac.in
www.asansolgirlscollege.ac.in

Special Attraction

The accepted paper will be published in the ISBN-registered proceedings

Scientific lecture series featuring Indian and international Scientists

Green campus for Scientific Discussion

Flexible Payment plan for Registration (Early Bird concession)

Exploring Beauty of Asansol



Blue Mine Factory



Sidhabari



Maithon Dam

REGISTRATION DETAILS:

Category	Early Bird Registration up to 7th February 2026	Up to 25th February, 2026
Delegate (Students)	Rs.200	Rs.300
Delegates (Faculty)	Rs.700	Rs.900
Other Delegates (Industry Person)	Rs.1000	Rs.1500
Other Foreign Delegates	\$ 50	\$ 70

PAYMENT DETAILS

Account No:11214095138
IFSC: SBIN0000011
Branch Code: 00011
Asansol



Scan to Register

<https://forms.gle/cWiPKHPzy7Kg5Tq5>

Organizing Committee

Secretary	Convener	Joint-Convener	Treasurer
Dr. Anand Sharma Assistant Professor Department of Botany ☎ 7029973904	Dr. Supriya Ray Associate Professor Department of Zoology ☎ 7098136249	Dr. Jhuma Biswas Assistant Professor Department of Botany ☎ 9748963896	Mr. Subhankar Barua Assistant Professor Department of Microbiology ☎ 9804211278

Abstract Submission details

Abstract (Oral & Poster) should be submitted in the following order

1. Title of the Paper
2. Author and coauthor names
3. Affiliation of author and coauthors (Mark* for presenting author's e-mail address)

You are required to provide a concise and factual abstract in English only within 250 words.

- Title: Times New Roman, bold, 14 font size, and to be written in proper case.
- Author(s) name and affiliation(s) to be provided in Times New Roman, italics, 11 font size, and affiliation(s) to be provided in Times New Roman, italics, 10 font size.
- The presenting author should be marked with * after the last name.
- The e-mail address of the presenting author to be written in Times New Roman, italics, 9 font size, and should be present just below the last line of affiliation(s).
- The fonts of the body of the abstract will be in Times New Roman, single spacing, 12 size
- No keyword is required to be provided
- The page size will be A4 with a margin of 1 cm on all sides
- Save files in an editable format, using the extension .doc/.docx files. A PDF is not acceptable

Poster Guidelines

- Posters must be prepared on A0 size (84 × 119 cm / 33 × 47 inches).
- Use Times New Roman font only; different font sizes may be used, but do not mix fonts.
- Title must be exactly as per the accepted submission, center aligned, in Times New Roman or Arial.
- Authors & Affiliations should be center-aligned:
 - Authors: Font Size 28
 - Affiliations: Font Size 20
 - E-mail: Font Size 20

LAST DATE OF ABSTRACT SUBMISSION:
07TH FEBRUARY 2026