



GURU NANAK COLLEGE (AUTONOMOUS)

A Unit of Guru Nanak Educational Society (Regd.)

Accredited at 'A++' Grade by NAAC | Affiliated to University of Madras

Approved by AICTE | An ISO 9001: 2015 Certified Institution

Guru Nanak Salai, Velachery, Chennai - 600 042



International Conference on “Frontiers of Sustainable Research in Health Care, Food, Agriculture and Environmental Management” (ICSURE - 2024)



Organized by
Guru Nanak Centre for Research
in association with
G.S. Gill Research Institute

22nd & 23rd February 2024

3 GOOD HEALTH
AND WELL-BEING



6 CLEAN WATER
AND SANITATION



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



2 ZERO
HUNGER



15 LIFE
ON LAND



14 LIFE
BELOW WATER



ABOUT THE COLLEGE

Guru Nanak College was established in 1971, in the commemoration of the 500 Birth Anniversary of the Shri Guru Nanak Devji by Guru Nanak Educational Society. It is a leading Autonomous Institution providing quality education to the aspiring and the needy from the less privileged sections of society and facilitate their social upliftment in accordance with the motto "Pro Bono Publico" "**Sarbat Da Bhala**" which translates as "**For the Benefit of All**".

The College is accredited at "A++" Grade by NAAC with CGPA of 3.68/4.00 and certified with ISO 9001:2015. It is listed 82 under the National Institutional Ranking Framework (NIRF) and also top-ranked by various agencies such as Education World, India Today and The Week - Hansa Research. The College functions in two Shifts and is affiliated to the University of Madras and also recognized by UGC under Sec. 12B and 2F status. The MBA and MCA programs are recognized by AICTE. Under the Six Schools of Excellence, 28 UG, 9 PG, 2 Pre-Doctoral, 9 Doctoral programs and 87 Skill and Value-Added Courses are offered to cater to the needs of 7288 students with 426 teaching and non-teaching staff. The College houses a Langar Kitchen inside the Gurudwara which extends free meals to needy students on every working day.

Centres of Excellence in Research, Skill Development and Placement, Innovation, Incubation, Entrepreneurship & Startups, Consultancy & Outreach Initiatives and Media are established. There is a well-established in-house Integrated Management System (Centre for e-Governance).

Full-time Counselor works inside the campus for the well-being of students & staff. The College has state-of-the-art sports facilities including an excellent cricket ground of International standards. The College has signed MOUs with Industries, HEIs various national and international Organizations / Institutes to broaden the knowledge of the young minds in the fields of Academics, Research and Culture.

GURU NANAK CENTRE FOR RESEARCH

As a Centre for Excellence, Guru Nanak Centre for Research (GNCR) was founded in 2019, to commemorate the 550th Birth Anniversary of Shri Guru Nanak Devji. It includes a broad spectrum of interdisciplinary and multidisciplinary research activities open to all researchers and academicians of Guru Nanak College, widening its horizon encompassing all Departments - Arts, Science, Commerce & Management studies. It is a premier Research Centre with a cutting-edge knowledge on the recent trends in Research ably conducted by Research Supervisors and Research Scholars (both stipendiary and non-stipendiary) from all disciplines. GNCR has in its fold, the women Scientists under the DST scheme and researchers under UGC-JRF scheme. The research projects undertaken by the research centers under GNCR is recognized by various funding agencies, such as UGC, DST, ICSSR and Ministry of Human Resource Development.

The Centre has two subsidiaries, "Student Research club" and the "IPR cell" providing platform even to under graduates who are keen in active research with their innovative acumen. Internal seed funding is provided to staff and students to encourage research leading to patent and product development. GNCR includes G.S. Gill Research Institute for the exclusive research on insect-plant interaction.

ICSSURE - 2024

G.S. GILL RESEARCH INSTITUTE

G.S. Gill Research Institute, commonly called as GRI, was founded in the year 1990 by Lt. Col. G.S.Gill, Father of the Sikh Community in Chennai, and the Founder of the Guru Nanak College. This institute is recognized by Madras University to offer higher education's such as M. Phil. and Ph.D. in Zoology and insect plant interactions (Entomology). GRI is in the process of obtaining various national and international affiliations and accreditations. This institute offers both full time and part time courses. GRI also offers entrepreneurship course which paves the way for the candidates to start their own industry. GRI has various research divisions, that undertakes research on Entomology and Agri technology. GRI has been given Autonomous status from the year 2000.

GRI is having state of art research facilities and instruments. The research facility is well equipped for undertaking application oriented research in Life science and in particular Insect Science.

GRI is now ISO 21001: 2018 certified Institution for the scope "Undertaking research in Life Sciences, offering Higher Education (Ph.D.) and Entrepreneurship courses in Insect Plant Interaction and Agri technology'.

GRI is in the process of obtaining various affiliations and accreditations from national and international bodies. Also, GRI envisaged to have collaborations with various government Institutes.

ABOUT THE CONFERENCE

Progressing towards a sustainable world is the need of the hour and this can be achieved by expanding the frontiers in sustainable research. Research in the fields of environment, health care, food and agriculture, would sooner lead us towards sustainability. The event will focus on the topics related to sustainable materials and methodologies involving recycling, upcycling, valorisation and bioremediation processes, which will throw light on the new strategies to be adopted for sustainable development.

OBJECTIVES OF THE CONFERENCE

1. To invite experts and other stakeholders of sustainable development on a common forum.
2. To provide a conducive environment for exchanging the ideas & research outcomes that encourages sustainable growth in health care, food, agriculture and environmental management.
3. To modify the existing technologies and methodologies that can bring about a sustainable livelihood.
4. To create an opportunity to document the research outcome suitable for innovation leading to sustainability.
5. To provide a platform for young researchers to interact with top global scientists in the leading areas to achieve sustainable developmental goals.

EXPECTED OUTCOMES

1. Proceedings on latest advancements to bring about sustainable practices in the field of health care, food, agriculture and environmental management.
2. Sharing new methodologies for reducing, reusing and recycling wastes generated from industries.
3. Motivating circular economy through planning new strategies to integrate with the existing system.
4. Opening avenues for proposing new academic and training programs in the area of sustainable development.
5. Recommending new policies that can be implemented by the Government.
6. Initiating collaborative research activities at national and international level.
7. Opportunities for researchers to work with nationally and internationally renowned scientists.

THEMES OF THE CONFERENCE

HEALTH CARE

- Medical Biotechnology
- Medical Microbiology
- Medical Biochemistry
- Pharmacology & Toxicology
- Drug Delivery & Bioinformatics
- Health Care Marketing
- Current trends in Health Care Sector

FOOD

- Food Chemistry
- Food Microbiology
- Food Processing & Preservation
- Sustainable Food Products & Innovative
- Marketing Strategies in Food Industry

AGRICULTURE

- Insect-Plant interaction & Chemical Ecology
- Plant & Microbes based Biopesticides
- Integrated Pest Management (IPM)
- Management of Veterinary & Stored Grain Pests
- Sustainable Agricultural Practices
- Value Added Products & Agriculture Marketing

ENVIRONMENTAL MANAGEMENT

- Environmental Geography & GIS
- Environmental Chemistry & Toxicology
- Environmental Pollution & its Management
- Sustainable Development & Alternate Energy
- Trends in Waste Disposal Strategies
- Climate Change & Disaster Management

CALL FOR ABSTRACTS & PAPERS

We invite papers from Academicians, Researchers and Executives from industry to submit original and unpublished work . The authors can submit their abstract and full paper relevant to the sub themes of this conference.

GUIDELINES FOR ABSTRACT & PAPER SUBMISSION

- Authors are requested to submit their abstract & full paper through conference email.
- Abstract should not exceeding 250 words. The full paper should not be exceed 7 pages.
- The title should be short, specific, informative and should not exceeding 25 words.
- The title should be followed by the names of author(s) with affiliation. The name of the corresponding author should be marked with an asterisk (*) and name of the author who would be presenting the paper should be underlined.
- The author(s) name should be followed by 4-5 keywords and corresponding author's email address.
- The full paper must have the following elements: Introduction, Materials & Methods, Results, Discussion, Conclusion, References & Acknowledgement (if any).
- Both abstract & full paper should be typed in A4 file, 1" margins, Times New Roman font (font size 12), double spaced and thoroughly revised before submission.
- No editing or material changes at the proof stage shall be permitted. **Plagiarism must be below 10%.**

NOTE

- All received papers of this conference will be reviewed jointly by the Conference review panel and respective Journal reviewing teams.
- The selected papers will be published in SCOPUS listed journals.
- There is no Article Processing Fee for processing article.
- A few full papers will be published in conference proceedings with ISBN.
- We will supply only the soft copies of the published materials to authors.
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**There are no
submission, processing
& publication fees**

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REGISTRATION FEE

Type of participants	Participation	Presentation (Oral/Poster)
Students	Rs. 500	Rs. 1000
Scholars	Rs. 750	Rs. 1500
Faculty	Rs. 1500	Rs. 1500
Industry	Rs. 2000	Rs. 3000
International	100 USD	150 USD

PAYMENT DETAILS

Name of the A/C holder: M/s. GNES Centre for Consultancy and Outreach

Bank Name: Equitas Small Finance Bank Ltd.

Account No.: 100047544447 **IFSC Code:** ESFB0001004

REGISTRATION LINK



Online registration link

<https://forms.gle/NnUbMhm4VexkTuvH6>



Offline registration link

<https://forms.gle/5rmBqueuacrJ2aA9x6>

IMPORTANT DATES

Registration commencement	01-11-2023
Extended abstract submission date	31.12.2023
Full paper submission last date	31-01-2024
Registration closing date	15-02-2024

If any queries please contact:

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EMINENT SPEAKERS



Dr. Roshan Kumar Yadav

Executive Member at UNESCO
Ministry of Education, Science & Technology,
Government of Nepal



Dr. Sonam Tashi

Dean, Research and Industrial Linkages,
College of Natural Resources, Royal
University of Bhutan, Lobesa, Bhutan



Dr. Sinnadurai Jameson Arasakesary

Senior Lecture Gr.1
Faculty of Agriculture,
University of Jaffna, Kilinochchi,
Sri Lanka



Dr. Ponmurugan Karuppiah

Research Associate (Professor)
Department of Botany and Microbiology,
College of Science, King Saud University,
Riyadh, Kingdom of Saudi Arabia



Dr. P. Aruna

Senior Principal Scientist
Polymers and Functional Materials Department,
CSIR-IICT, Hyderabad



Dr. G. Sekaran

Chief Scientist
Environmental Technology
CSIR-CLRI, Adyar, Chennai

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INTERNATIONAL

Dr. G. Periyasami

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Department of Chemistry
King Saud University, Saudi Arabia

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Department of Environmental Energy &
Engineering, Kyonggi University, Republic of Korea

Dr. Thiruvengadam Muthu

Associate Professor
Department of Applied Bioscience, College of Life
and Environmental Science, Konkuk University,
South Korea

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Extraordinary Associate Professor, North-West
University, South Africa

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NATIONAL

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Chief Scientist & Head, Honorary Faculty - Anna
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Shoe & Product Design Centre (SPDC),
CSIR-CLRI, Chennai

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University of Madras, Chennai

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Assistant Professor and Head i/c
Department of Analytical Chemistry
University of Madras, Chennai

Dr. Singanan Malairajan

Associate Professor, Department of
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CO-CONVENER

Dr. S. Prem Mathi Maran, Director, GRI

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