

27th PUNJAB SCIENCE CONGRESS

National Conference
on

“SCIENCE, BIODIVERSITY
AND TECHNOLOGY: TOOLS
FOR SUSTAINABLE
DEVELOPMENT GOALS”



FEBRUARY 7-9, 2024

Under The Aegis of
PUNJAB ACADEMY OF SCIENCES, PATIALA

Organised by:

DESH BHAGAT UNIVERSITY

NH-44, Amlloh Road, Mandi Gobindgarh, Distt- Fatehgarh Sahib - 147301

ABOUT DESH BHAGAT UNIVERSITY

Desh Bhagat University has been established under The Desh Bhagat University Act, 2012 (Punjab Act No. 15 of 2013) and is located at Amlloh Road, Mandi Gobindgarh, District Fatehgarh Sahib. The visionary behind the initiative of creation of Desh Bhagat University has been Sardar Lal Singh Ji (father of Hon'ble Chancellor), who was an acknowledged freedom fighter & associate of Neta Ji Subash Chander Bose, "Tamar Patra" Awardee in 1972 by Government of India and recently bestowed with the honour posthumously by World Book of Records, London for his matchless contribution to the field of national integrity, social reforming and education as a freedom fighter of Indian Independence.

Desh Bhagat University (DBU), Mandi Gobindgarh is approved under Section 2(f) and 12B of UGC Act 1956 by the University Grants Commission (UGC), the Central Council for Indian Medicine (CCIM), the Pharmacy Council of India (PCI), the Punjab Nurses Registration Council (PNRC), the Indian Nursing Council (INC), the Bar Council of India (BCI), the Dental Council of India (DCI), Member Association of Indian Universities (AIU) & United Nations Academic Impact (UNAI), NAAC accredited and ISO certified among others. The University has 14 Faculties and 34 departments providing education in various disciplines, offering more than 256 professional programmes across 50 streams at the undergraduate, postgraduate and doctoral levels with more than 400 faculty members. The University offers specializations in faculties, including Ayurvedic Sciences, Applied Sciences, Management, Education, Commerce, Agriculture, Fashion Technology, Tourism, Law, Hotel Management, Performing Arts, Nursing, Physical Education, Social Sciences, Engineering, Management Humanities, Pharmacy, Arts and many more.

PUNJAB ACADEMY OF SCIENCES

The Punjab Academy of Sciences (PAS) came into being during the 83rd session of the Indian Science Congress at Punjabi University, Patiala in 1996. It provides a platform where senior scientists and young researchers in the region meet and interact in order to share their expertise in different disciplines of Science & Technology. At present this registered body has more than 1600 life members. The academy has conferred its Honorary Fellowship to a number of distinguished scientists from India and abroad, who have significantly contributed towards latest innovations in Science and Technology. The academy also confers Life-Time Achievement Award to reputed Scientists. The academy is bringing out an annual

journal of research namely "Journal of Punjab Academy of Sciences".

The main aims of the Academy are:-

- To serve the cause of science in Punjab, with respect to its basic and applied aspects.
- To encourage original research in general and with reference to Punjab in particular.
- To create scientific temper and awareness among the masses.
- To establish interaction among the scientists with particular reference to inter-disciplinary branches.
- To workout strategies for sustainable use of our natural resources and maintenance of environment.

Highlights of 27th Punjab Science Congress

This conference includes oral/poster presentations and panel discussions (online*/offline mode) on various disciplines, as given below:

Section A: Mathematical Sciences, Engineering and Technology.

Section B: Physical Sciences.

Section C: Chemical Sciences.

Section D: Biological, Agricultural and Environmental Sciences.

Section E: Medical, Veterinary and Pharmaceutical Sciences.

Special Section: Biodiversity : Conservation and Challenges (Preferably Punjabi).

The detailed guidelines for online/offline mode of presentations shall be notified to the registered candidates on their email ID.

CALL FOR ABSTRACT

The members/non-members of the Punjab Academy of Sciences are cordially invited to submit their original unpublished research contributions in any of the above mentioned sections. Abstract should not exceed 250 words, Font-Times New Roman, font size-12, single line spacing, paper size-A4 in MS Word. It is essential to send the abstract through electronic email:

27psc2024@deshbhagatuniversity.in

on or before **December 31, 2023**.

Not more than two papers, either as single author or with co-authors, can be submitted. The name of the presenting author should be marked with an asterisk (*) sign along with the email ID. The decision for oral/poster presentations will be strictly followed as per approval of the technical review committee. Selected papers may be published in the special issue of Journal of Punjab Academy of Sciences as per norms with the consent of authors.

PRESENTATION (ORAL/POSTER)

There will be parallel technical sessions for oral presentations of papers for each section, separately both in offline & online* mode. Ten minutes shall be given for oral presentation (seven minutes for presentation and three minutes for discussion). For poster presentation, each participant will be provided with a space of 100cm X70cm for displaying the written material, diagrams, photographs etc. Best poster in each section will be awarded a medal, certificate and a prize of Rs. 2100/- by the Punjab Academy of Sciences.

YOUNG SCIENTIST AWARD

A special offline session for the presentation of papers for the young scientist award will be held on February 8, 2024. Young scientists up to the age of 35 years on December 31, 2023 may send their abstracts and full length papers to the Secretary, Punjab Academy of Sciences, Union Building, Punjabi University, Patiala, separately on or before December 31, 2023. Name of the Section pertaining to the paper should be clearly mentioned on the envelope. The abstract of this paper should be submitted online at pasciences@gmail.com. The Young scientists (proof of age to be furnished) selected for best presentation will be awarded a certificate of honor, medal and cash prize of **Rs. 7500/-**.

***The online mode will not be allowed for participants from Punjab & Chandigarh.**

REGISTRATION FEE

	PAS Member	Non-Member
Academician	Rs. 2200/-	Rs. 2800/-
Research Scholars	Rs. 1400/-	Rs. 1900/-
Students	Rs. 750/-	Rs. 750/-
Corporate Delegates	Rs. 4000/-	Rs. 4500/-

online payment at following account number:

Name : Desh Bhagat University

Account No. : 001305011124

IFSC Code : ICIC0000013

Name of Bank & Branch : ICICI Bank/Sec.9D, Chandigarh

The Proof of online payment should be submitted along with online registration form latest by **December 31, 2023**.

The registration fee covers conference kit, lunch, session tea and Dinner. The accommodation on extra charges will be provided to the interested delegates in nearby Guest Houses/hotels. Delegates are requested to intimate their travel plans in advance to avoid last minute inconvenience. Participants who are not member of Punjab Academy of Sciences and want to become a life member will have to pay an additional membership fee of Rs. 2000/- (Life

membership fee) by Demand Draft/Cheque in favor of Punjab Academy of Sciences. The participants are advised to contact the organizing secretary for any queries

NOMINATIONS

The Punjab Academy of Sciences invites nominations/applications for the following awards (to reach the Secretary, PAS on or before December 31, 2023):

- Life Time Achievement Award
- Nominations for Honorary Fellowship of the Academy
- Research paper for Young Scientist Award
- Research Award for a rural woman working in the area of Pharmaceutical Sciences
- Best Science Teacher (Colleges) Award
- Best Rural Science Teacher (School) Award
- Rural students (One girl and One boy) who topped the PSEB Matriculation Examination, 2023
- S. Jawahar Singh & Mrs. Satbachan Kaur Young Scientist Award for a person who presents his/her original research findings in Punjabi language
- Desh Bhagat S. Lal Singh Oration Award (Desh Bhagat University, Gobindgarh)
- Er. Gurcharan Singh Oration Award (I.E.T. Bhattal)

ORGANIZING COMMITTEE

Chief Patron

Dr. Zora Singh, Honorable Chancellor, Desh Bhagat University.

Patrons

Dr. Tajinder Kaur, Honorable Pro-Chancellor, Desh Bhagat University.

Dr. Sandeep Singh, President, Desh Bhagat University.

Dr. Harsh Sadawarti, Vice President, Desh Bhagat University

Chairperson

Prof. (Dr.) Abhijit Joshi, Vice Chancellor, Desh Bhagat University.

Organizing Secretary

Prof.(Dr.)H.K. Sidhu, Dean, Agriculture & Life Sciences (6239564488)

Organising Committee

Dr. L.S. Bedi, Dean Academics

Prof.(Dr.) R.K. Soni, Dean Research

Dr. Pramod Mandal, Director Academics

EXECUTIVE COMMITTEE: PUNJAB ACADEMY OF SCIENCES OFFICE BEARERS:

President

Prof. I. J. S. Bansal, Punjabi University, Patiala

Vice President

Prof. S. S. Hundal, Punjab Agricultural University, Ludhiana

Secretary

Prof. Tarlok Singh, Punjabi University, Patiala

Treasurer

Prof. N. R. Dhimiwal, Punjabi University, Patiala

EXECUTIVE MEMBERS

Prof. Pawan Krishan, Punjabi University, Patiala

Prof. M.C. Sidhu, Panjab University Chandigarh

Prof. Harish Kumar Chopra, SLIET, Longowal

Dr. Kamaljit Singh, Punjabi University Patiala

Dr. Sandeep Sharma, GNDU, Amritsar

Dr. Manoj Kumar Sharma, TIET, Patiala

Dr. Amritpal Singh Kaleka, Punjabi University, Patiala

For queries/membership pertaining to Punjab Academy of Sciences, please contact: Prof. Tarlok Singh, Union Building, Punjabi University, Patiala 147 002, Punjab, India

E-mail: pasciences@gmail.com, Mobile No. +91-76961-13505

CONFERENCE ADVISORY COMMITTEE

Prof. S.S. Gosal, Vice-Chancellor, PAU, Ludhiana.

Prof. Arvind, Vice-Chancellor, Punjabi University Patiala.

Prof. Jaspal Singh Sandhu, Vice-Chancellor, GNDU, Amritsar.

Prof. Renu Vig, Vice-Chancellor, Panjab University, Chandigarh.

Prof. Susheel Mittal, Vice-Chancellor, I.K.G.P. PTU, Jalandhar.

Prof. B.S. Sidhu, Vice-Chancellor, MRSPTU, Bathinda.

Prof. R.C. Sobti, Former VC, Panjab University, Chandigarh.

Prof. M.S. Uppal, Vice-Chancellor, SGRDUHS, Sri Amritsar.

Prof. A.S. Ahluwalia, Pro-VC, Eternal University, Baru Sahib (H.P.)

Prof. Rajiv Ahuja, Director, IIT, Ropar.

Prof. Mani Kant Paswan, SLIET, Longowal.

Prof. Padmakumar Nair, Director, TIET, Patiala

Prof. Devinder Singh, Pro-VC, Chandigarh University, Gharuan.

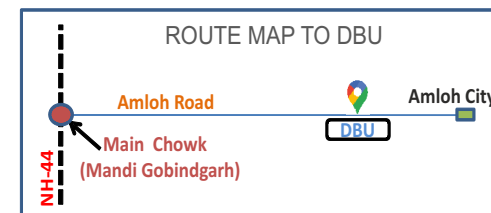
Prof. S.S. Dhaliwal, SLIET, Longowal.

Prof. A.K. Tiwari, Punjabi University, Patiala.

Prof. Paramvir Singh, Punjabi University, Patiala.

Prof. Narinder Singh, IIT, Ropar

Prof. Maninder Singh, TIET, Patiala



Conference Venue:

DESH BHAGAT UNIVERSITY

NH-44, Amloh Road, Mandi Gobindgarh, Distt- Fatehgarh Sahib - 147301