

## ABOUT AKAL UNIVERSITY

Established under the Punjab Government Act No. 25 (2015) and approved under the Section 2(f) of UGC Act (1956) to confer degrees. Akal University has a mission and vision to establish permanent peace in the world through values based scientific education and spiritual rejuvenation creating good global citizens. With blessings of Sant Baba Attar Singh Ji Maharaj, the establishment of Akal University under the leadership of Founder Chancellor Baba Iqbal Singh Ji by the Kalgidhar Trust (Baru Sahib) is culmination of what the Tenth Sikh Guru, Guru Gobind Singh Ji, prophesied about three centuries ago. Akal University has been mandated to carry out activities pertaining to the three basic principles of higher education: Teaching, Learning and Research. The University is successfully running UG (Honors), PG and PhD programs in Mathematics, Physics, Chemistry, Botany, Zoology, English, Punjabi, Psychology, Commerce, Economics and Sri Guru Granth Sahib Studies, Computer Application, MBA, Education, Physiotherapy and Medical lab technician. Striving for excellence in teaching and research under the stewardship of Chancellor Baba Dr. Devinder Singh Ji and able guidance of Prof. (Dr.) Gurmail Singh, the University has faculty members who are highly qualified with exceptionally good academic records. The University has a firm resolve to provide a drug-free environment and to create a disciplined campus. Magnificent building with ultra-modern facilities for teaching and research is the hallmark of the University.

## DEPARTMENT OF MATHEMATICS

The Department of Mathematics has been established to uplift and upgrade the standards of teaching, learning and research to meet the high levels of excellence and the requirements of today's competitive world. Some of humankind's most powerful and beautiful ideas lie in the field of Mathematics. The wide applicability of these ideas and their deep connection with the natural sciences have made this discipline one of the most fruitful arenas of human inquiry. Combining as it does the greatest creative freedom with the most stringent standards of rigor, Mathematics also happens to be the ideal training ground for learning a broad range analytical and problem-solving skills.

Akal University's programme of study for the Major in Mathematics has been designed to meet two primary goals:

- Students should be broadly exposed to the primary areas and the central ideas of contemporary Mathematics (as well as their applications); and
- Students should develop the skills of rigorous analytic reasoning along with a set of useful problem-solving skills and strategies.

## OBJECTIVES OF THE CONFERENCE

The objective of the International Conference on Evolution in Pure & Applied Mathematics is to provide an international platform for scientists, researchers and educators to present and discuss the most recent innovations, trends and applications related to various branches of Mathematics like Algebra, Analysis, Number Theory, Numerical Analysis, Optimization etc. The aim of the conference is to provide a knowledge medium for researchers to gather together and share their experiences on different research works and their collaboration in various parts of mathematics. ICEPAM-2022 is an outstanding platform to discuss the key findings, exchanging novel ideas, listening to world class leaders and sharing experiences with peer groups. It will provide the opportunities of collaboration with national and international organizations of repute to the research community. ICEPAM-2022 expects a large number of participants and submissions from worldwide.

### TOPICS OF INTEREST INCLUDES BUT ARE NOT LIMITED TO

- **Combinatorics**
- **Special Functions**
- **Graph Theory**
- **Algebra and Its Applications**
- **Number Theory**
- **Topology**
- **Analysis**
- **Summability and Approximation Theory**
- **Numerical Analysis**
- **Bio- Mathematics**
- **Mathematical Modeling**
- **Operations Research**
- **Theoretical and Numerical Aspects of ODEs/PDE/Fractional DEs**
- **Differential Geometry and Applications**
- **Coding Theory**
- **Cryptography and Information Theory**

**For More details visit:**

[https://auts.ac.in/au\\_event/icepam-22/](https://auts.ac.in/au_event/icepam-22/)





# KEY SPEAKERS



Professor D. Goldfeld Columbia University, USA  
Professor G. Norberto University of L'Aquila Palazzo Camponeschi, ITALY  
Professor Emeritus S. K. Khanduja Panjab University, INDIA



Professor S.M. Grad, ENSTA Paris, Polytech. Institute of Paris, FRANCE  
Professor E. Novak Friedrich-Schiller-Universität, GERMANY  
Professor H. Ramos University of Salamanca, SPAIN



Professor Z. A. Majid Universiti Putra, MALAYSIA  
Professor N. Srinivasan Indian Institute of Technology Guwahati, INDIA  
Professor M. A. Rufai University of Bari, ITALY



Professor J. Mashreghi Laval University, CANADA

# ICEPAM-2022

## INTERNATIONAL CONFERENCE

ON

## EVOLUTION IN PURE AND APPLIED MATHEMATICS

(Hybrid Mode)



# NOV 16-18, 2022

## AKAL UNIVERSITY, TALWANDI SABO

[www.auts.ac.in](http://www.auts.ac.in)

## PUBLICATION

All the accepted abstracts will be published in the abstract book and will be shared to all the participants in soft copy. Only peer reviewed accepted full length articles will be published in the proceedings by Springer (Proposal Submitted).



## Instructions for Registration

## How to Register\*:

## Abstract Submission:

### 1. Full Paper (Presentation and Publication)

Participants will be invited to give the presentation at the conference and accepted papers (after peer review) will be published as a book chapter in the conference proceedings.

### 2. Abstract (Presentation only)

Accepted abstract will be invited to give the presentation at the conference. The abstract can be included in the program only.

### 3. Attending only

Any one interested can attend the conference after the registration.

### 4. Competing for "Baba Iqbal Singh Ji Award" for Best Paper

Instructions for applying the best paper award  
This award will be given to a Mathematician for his contribution to emerging research areas in Mathematics. **The award carries a Certificate and a cash prize of Rs. 10,000/-.** The final result will be announced at the valedictory session. The eligibility criteria for applying under this award is as follows:

(i) Any one can apply, irrespective of his/her nationality pursuing his research in Mathematics.

(ii) The age of awardee should be less than 42 years.

(iii) The awardee should have to present his work in this conference.

(iv) Applicant should be registered in Ph.D./Post Doc in recognized institute.

NOTE: The awards will be conferred to the author of a paper selected by the Program/Conference/ Doctoral Consortium Chairs. The decision criterion will consider both the paper quality (assessed by the Program Committee), and the oral presentation quality (feedback given by session chairs).

The participant has to register for the conference through the following link:

<https://auts.ac.in/registration-form/>

Submit your abstract at below link:

<https://easychair.org/conferences/?conf=icepam2022>

## IMPORTANT DATES (Extended)

<b>Last date of abstract submission</b>	<b>September 25, 2022</b>
<b>Notification of acceptance of abstract</b>	<b>September 30, 2022</b>
<b>Last date of Registration and full paper submission</b>	<b>October 10, 2022</b>
<b>Last date of registration for the Conference (Attending Only)</b>	<b>October 31, 2022</b>

## FEE DETAILS

<b>Category</b>	<b>National (Rupees)</b>	<b>International (US Dollar)</b>
<b>Students</b>	<b>300</b>	<b>75</b>
<b>Research Scholars</b>	<b>700</b>	<b>100</b>
<b>Academicians</b>	<b>1000</b>	<b>150</b>
<b>Industry Personnel</b>	<b>1500</b>	<b>200</b>

## ADVISORY COMMITTEE

### INTERNATIONAL

Professor Dorian Goldfeld , Columbia University, New York, USA

Professor Gavioli Norberto, University of L'Aquila Palazzo Camponeschi, ITALY

Professor Sorin-Mihai Grad, Boulevard des Maréchaux, 91120 Palaiseau, FRANCE.

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Professor Mustafa Inc, Firat University, ELAZIG/TURKEY

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**Hon'ble Baba Dr Davinder Singh Ji**  
(Chancellor)

### PATRON

**Prof. Gurmail Singh**  
(Hon'ble Vice-Chancellor, Akal University)

### CHAIRMAN

**Maj Gen (Dr.) GS Lamba,**  
(Dean Academic Affairs, Akal University)

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**Dr. Sandeep Singh**  
**Mr. Rajat Singla**

### CO-CONVENER

**Dr. Baljinder Kour**

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**Dr Bubun Banerjee, (Asst Dean Research)**  
**Prof. BirBikram Singh, (DSW)**

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**Dr. Jeetendrasingh Maan (Mathematics)**  
**Mr. Vivek Panwar (Mathematics)**

## ADVISORY COMMITTEE

### NATIONAL

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Professor Kalyan Chakraborty, Director Kerala School of Mathematics, Kerala

Professor A S KAhlwalia, Pro Vice-Chancellor, Eternal University, Himachal Pradesh

Professor I K Rana, IIT Bombay, Maharashtra

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Professor Dinesh Khurana, Panjab University, Chandigarh

Professor Vanita Verma, Panjab University, Chandigarh

Professor (Emeritus) Sudesh Kaur Khanduja IISER Mohali, Punjab

Professor Amit Kulshrestha, IISER Mohali, Punjab

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