



Madhya Pradesh Council of
Science & Technology



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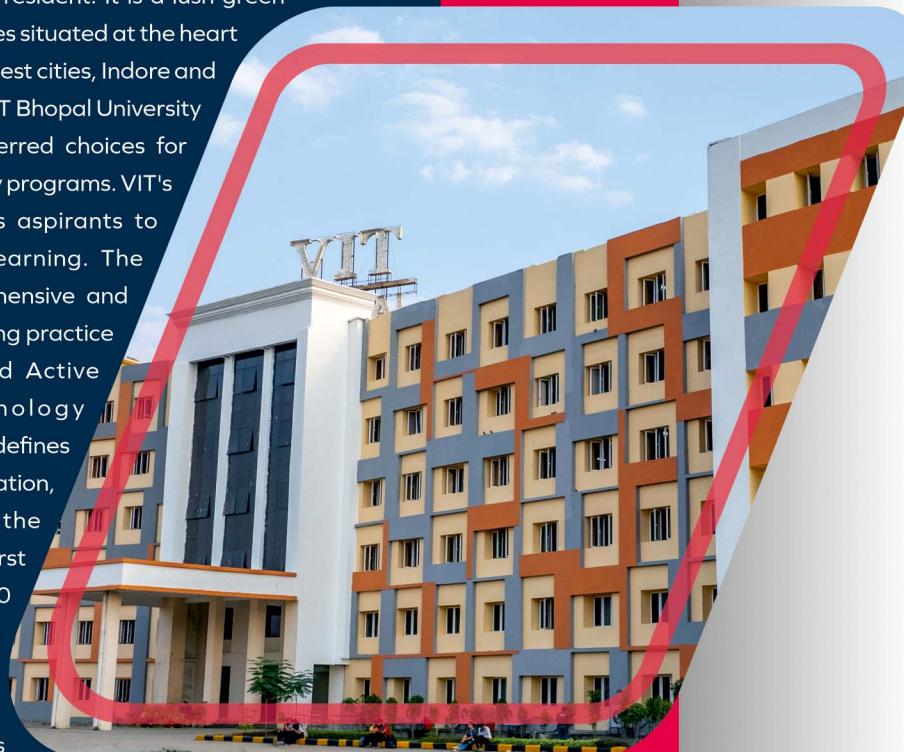
International Conference on
**Interdisciplinary Perspectives in
Mathematics, Science & Linguistics**

5th - 7th December 2024

Organized by **School of Advanced Sciences and Languages**
VIT Bhopal University

About the University

VIT Bhopal University, a legacy of VIT Vellore, was established in 2017 with a global perspective, dedicated to shaping the leaders of future generations. The university is led by Dr. G. Viswanathan, Founder and Chancellor; Mr. Sankar Viswanathan, Vice President; and Ms. Kadhambari S. Viswanathan, Assistant Vice President. It is a lush green campus covering over 350 acres situated at the heart of India, between the two cleanest cities, Indore and Bhopal. Within a short span, VIT Bhopal University has become one of the preferred choices for students due to its future-ready programs. VIT's global outlook empowers its aspirants to attain excellence through learning. The university employs a comprehensive and innovative teaching and learning practice known as Collaborative and Active Learning through Technology (CALTech). This approach redefines the methods of learning, education, and knowledge-building in the country. VIT Bhopal is the first private university to boast a 100 percent doctoral faculty, with members hailing from all over India. The university has established collaborations with reputed national and international organizations and strategic partnerships with universities worldwide to prepare a globally competent generation of professionals. Currently, over 14,000 students are enrolled in twenty-six engineering and non-engineering undergraduate, postgraduate, and Ph.D programs from 32 states and union territories of the country.



About the School

The School of Advanced Sciences and Languages (SASL) at VIT Bhopal is principally concerned with blending the best knowledge of science and humanities with engineering to align the expertise of our students with ever-changing technological requirements. The school offers numerous core and elective courses developed in collaboration with international academia and industrial experts in mathematics, chemistry, physics, and humanities. The school imparts knowledge by employing student-centered teaching approaches via state-of-the-art studio classrooms equipped with wave 2.0 technology. The school is also involved in research, where researchers and scholars, in partnerships with government, industry, and nonprofit organizations, develop cutting-edge technology and innovations to serve our society. The research carried out by our faculty members, with diverse research profiles and industrial and international working experience, ranges from basic areas such as drug design, microbiology, molecular modelling, energy and the environment, materials, catalysis, nonlinear dynamics, numerical methods, graph theory, space science, astrophysics, and computational linguistics to interdisciplinary areas such as biotechnology, nanoelectronics, computational biology, machine learning in biology and chemistry, and socio-linguistics teaching pedagogy.

About Bhopal

Bhopal, the capital of Madhya Pradesh, is renowned worldwide as The City of Lakes. It boasts a rich cultural heritage and historical significance, attracting tourists and visitors from all corners of the globe. The city is well connected to various parts of the country by road, rail, and air, making it easily accessible for travellers. With its picturesque lakes, lush greenery, and architectural marvels, Bhopal offers a unique blend of natural beauty and urban charm.

VIT Bhopal University is conveniently located at a distance of approximately 68 km from Bhopal and 125 km from Indore, ensuring easy access for students and faculty members alike.



Objective of the Conference

The objective of the Interdisciplinary Conference on Mathematics, Science, and Linguistics is to foster collaboration and the exchange of ideas among participants from various disciplines. It aims to explore the intersection of these fields and promote innovative approaches to addressing complex challenges and advancing knowledge.

The conference provides a platform for experts to present their latest research findings, theories, and methodologies, facilitating the sharing of knowledge and encouraging discussions on interdisciplinary topics. It fosters collaboration and research across disciplines, offering an opportunity for participants to interact, exchange ideas, and explore potential collaborations that can lead to advancements.

By bringing together experts from different fields, the conference facilitates the cross-pollination of ideas and perspectives, leading to new insights and solutions to existing problems. It seeks to bridge gaps between disciplines by exploring commonalities and synergies among them, encouraging participants to look beyond boundaries and discover connections that enhance understanding and problem-solving capabilities.

Moreover, the conference aims to explore the practical applications and societal implications of interdisciplinary research, fostering discussions on how it can contribute to addressing societal challenges, advancing technology, and shaping policy.

Submission Guidelines

Title of the Paper, Sub-theme of the paper, Name and Designation of the author(s), E-mail address, Postal address, and Contact Number

Only selected abstracts will be permitted for presentation.

Abstract: The abstract should not exceed 300 words and must be accompanied by a cover page stating the following Link for Abstract Submission:

Mode of Presentation

Presentation will be conducted in a Hybrid manner. All the sessions must be Offline. Online presentations are only for International Participants.

Venue: VIT Bhopal University.

Overall, the Interdisciplinary Conference on Mathematics, Science, and Linguistics aims to create a collaborative environment where participants can share knowledge, collaborate across disciplines, and contribute to the advancement of these fields through interdisciplinary perspectives.

Sub Themes:

- Science and Mathematics Education
- Computational Biology
- Computational Chemistry
- Interdisciplinary Approaches to Data Science
- Cognitive Science and Language
- Interdisciplinary Approaches to Language Evolution
- Linguistics in the Digital Age
- Data Science and Computational Methods
- Computational Physics
- Mathematical Modelling in Natural Sciences
- Interdisciplinary Perspectives on Human-Machine Interaction
- Environmental Science and Sustainability
- Mathematical and Computational Approaches in Linguistics

These sub-themes highlight the intersections between mathematics, science, and linguistics, and how interdisciplinary perspectives can drive advancements in these fields. Researchers from various disciplines can present their work, exchange ideas, and foster collaboration in these areas.

1. Science and Mathematics Education

Innovative teaching methods in science and mathematics
Curriculum development and evaluation
Integration of technology in science and mathematics education
Assessment and evaluation in science and mathematics education

2. Data Science and Computational Methods

Big data analytics
Machine learning and artificial intelligence
Statistical methods in data science
Applications of data science in various domains

TRACKS AND SUB-THEMES

3. Computational Biology

Bioinformatics
Systems biology
Computational genomics
Biological data analysis

4. Computational Physics

Numerical methods in physics
Simulation and modeling in physics
Quantum computing and its applications
Computational methods in theoretical physics

5. Computational Chemistry

Molecular modeling and simulations
Quantum chemistry
Chemical informatics
Applications of computational chemistry in drug design

6. Mathematical Modelling in Natural Sciences

Mathematical models in biology, physics, chemistry, and linguistics
Applications of differential equations
Computational techniques in natural sciences and languages
Interdisciplinary applications of mathematical modeling

7. Interdisciplinary Approaches to Data Science

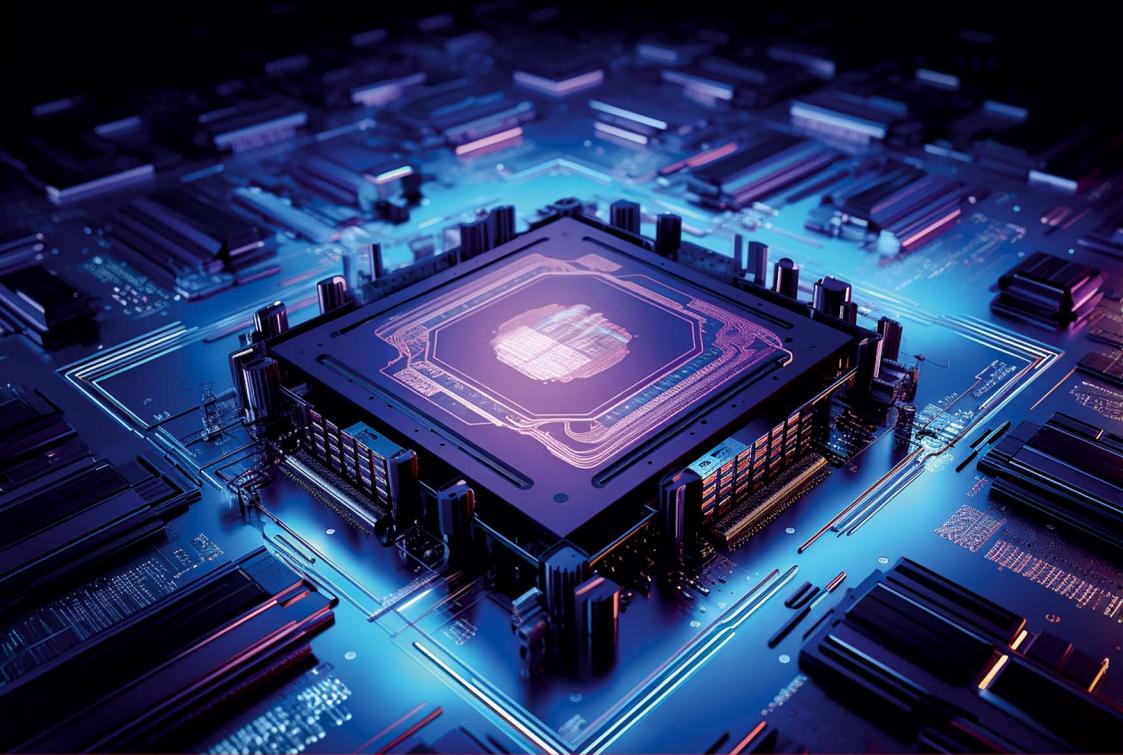
Data science in social sciences and humanities
Ethical issues in data science
Data visualization and interpretation
Case studies and applications

8. Environmental Science and Sustainability

Climate change and environmental modeling
Sustainable development practices
Environmental data analysis
Interdisciplinary approaches to environmental science

9. Cognitive Science and Language

Language acquisition and processing
Cognitive models of language understanding
Neurolinguistics
Language and thou



Full length Research Paper:

- The manuscript should be of an average length of 6,000 words, typed in MS Word, with 1.5 line space, 12 Font size, and Times New Roman font.
- The manuscript should carry an abstract of about 150-200 words with not more than Five keywords. Both the abstract and keywords are mandatory.
- Every contribution should be accompanied by a declaration that the article is original and has not been published nor submitted elsewhere for publication.
- All submitted articles will be double blind peer reviewed. Acceptance of articles is subject to recommendation by the review panel and subsequent acceptance by the Editor.
- Every accepted article will be copy-edited. The Editorial Board reserves the right to make necessary revisions to the text in keeping with the journal style sheet and standard.
- Author contribution statement should be included at the end of the manuscript.
- Authors should state any conflict of interest in the manuscript.
- Funding information: Authors may mention about the funding/grant received to carry out the research work.
- Correspondence: One author should be designated as Corresponding author and will be the principal contact for the editorial team for any publication related matters. Corresponding authors should get the consent from the co-authors for any matter related to publication.
- Corresponding Authors are required to obtain the consent of all their co-authors prior to submitting a manuscript for publication.
- Upon acceptance of the article, the copyright form should be submitted to the editorial office signed by all authors. If acceptable to all authors, the corresponding author may sign on their behalf.
- It is mandatory for all the authors to provide the name of their affiliated Institution, place and correspondence details including email.
- If any change in authorship is necessary after a manuscript has been submitted, the Corresponding Author must email a copy of a signed letter to the Editor-in-Chief confirming that all of the original co-authors have been notified and have agreed to the change.
- No changes in the author list will be permitted after a manuscript has been accepted.
- All correspondence should be addressed to: Email (icipmsl@vitbhopal.ac.in)

Registration Fees:

Registration	Early Bird	After Due Date
NATIONAL		
Research Scholar / Students	Rs. 2001/-	Rs. 2501/-
Faculty	Rs. 3501/-	Rs. 4501/-
Industry Expert	Rs. 5001/-	Rs. 6001/-
INTERNATIONAL		
Research Scholar / Students	151 USD	201 USD
Faculty	301 USD	401 USD
Listener / Accompanying Person	Rs. 2001/-	

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Bank Name: **Indian Bank**

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Swift Code: **IDIBINBBMAS**

Important Dates

Submission of Abstract: **30th July, 2024**
Confirmation of Abstract: **30th August, 2024**
Submission of Full Paper: **30th September 2024**
Acceptance of the full-length paper: **31st October 2024**
Early bird registration up to International Conference: **10th Nov 2024**
5-7 December, 2024

Click the link to register:

<https://cmt3.research.microsoft.com/ICIPMSL2024/Submission/Index>

Publication

All registered and presented papers will be submitted to IGI Global for possible Scopus indexing. The extended versions of a select number of these presented papers will be considered for publication in highly reputed Scopus-indexed journals. Publication charges for these (extended) papers will be as per the respective journal's policy.

Please visit the conference website for details: <https://vitbhopal.ac.in/icipmsl-2024/>

Accommodation

The participants will have to bear the cost of accommodation however we will assist to get rooms in nearby hotels

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Plenary Speakers

- **Dr. V. P. Saxena**
- **Dr. Renu Jain**
- **Dr. K.P.Mohan**
- **Dr. Pawan Lingras**
- **Prof. Niladri Chatterjee**
- **Dr. Kamal Raj Pardasani**
- **Dr. Neeru Adlakha**

Invited Speakers

- **Dr. S. Srinivas**, VIT AP University
- **Dr. TR Ramamohan**, Ramaiah Institute of Technology, Bangalore
- **Dr. Brajesh Kumar Jha**, PDEU Gandhinagar Bhopal
- **Dr. Sunil Kumar Pandey**, NIT Manipur
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- **Dr. Rajesh K. Pandey**, IIT BHU
- **Dr. Navnit Kumar Jha**, South Asian University, New Delhi
- **Dr. Rabia Musheer**, Research Officer (Technical) State Planning Institute (New Division), Lucknow
- **Dr. Tanmay Vashu**, IISER Bhopal
- **Dr. A. K. Verma** (IIT Patna)
- **Dr. Bapan Ghosh** (IIT Indore)
- **Dr. Anuraj Singh**, IIITM Gwalior
- **Dr. M.A. Khandey**, Kashmir university
- **Dr. Santanu Manna**, IIT Indore

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