



P.K. UNIVERSITY
SHIVPURI (M.P.)

UNIVERSITY ESTABLISHED UNDER SECTION 2(F) OF UGC ACT 1956
VIDE MP GOVERNMENT ACT NO. 17 OF 2015

PROCEEDING

OF

2nd
INTERNATIONAL
CONFERENCE

on

**Collaborative Futures :
Bridging Ideas, Cultures and Disciplines**

ICCFBCD-25

Date: 14th June 2025 (Saturday)

Organized by :

**Faculty of Science & Commerce
P.K. University, Shivpuri,
Madhya Pradesh, India, 473665**

In Offline Mode, 14th June, 2025

Conducted by

P.K. University, Shivpuri (M.P.)

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P.K. UNIVERSITY
SHIVPURI (M.P.)

#1st
PRIVATE UNIVERSITY
IN BUNDELKHAND REGION

2nd INTERNATIONAL CONFERENCE *on*

**Collaborative Futures :
Bridging Ideas, Cultures, and Disciplines.**

ICCFBCD-25

Date: 14th June 2025 (Saturday)

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**Faculty of Science & Commerce
P.K. University, Shivpuri, Madhya Pradesh, India, 473665**



Venue:

**Vishveshwarya Auditorium,
Admin Block, P.K. University,
Shivpuri (M.P.)**



About P.K. University

P.K. University, established with the vision to provide quality education, is one of the prominent institutions in the region. Known for its academic rigor, state-of-the-art infrastructure, and a robust focus on research and innovation, P.K. University has set a high standard in higher education.

With an expanding network of more than 5000+ students and over 350+ faculty members, the university fosters a learning environment that encourages academic excellence, interdisciplinary collaboration, and practical application of knowledge. The university offers a wide array of undergraduate, postgraduate, and doctoral programs across various disciplines, ensuring students receive a comprehensive and forward-thinking education.

Excellence in Education

P.K. University is committed to fostering a holistic learning environment. The university's programs are designed not only to impart theoretical knowledge but also to ensure practical experience, making students well-prepared for the competitive global workforce. The curriculum integrates the latest trends and developments in each field, ensuring students receive up-to-date and relevant education.

The faculty at P.K. University consists of highly qualified professors with national and international experience in their respective fields. Many faculty members actively contribute to research, presenting their findings at global forums, ensuring the highest standards of teaching and learning. With a focus on research and development, P.K. University has established several research centers that encourage students to engage in research activities that have real-world impact. The university also promotes collaborative research initiatives with industry leaders and academic institutions worldwide.



About the Conference

The 2nd International Conference at P.K. University aims to provide a global platform for academicians, researchers, professionals, and students to engage in meaningful dialogue and research under the interdisciplinary theme: "Collaborative Futures: Bridging Ideas, Cultures, and Disciplines." The focus is on fostering cross-cultural, cross-disciplinary collaboration to generate sustainable, inclusive solutions for a better future.

Call for Research Papers:

We are pleased to invite original and unpublished contributions in the form of ongoing research papers, case studies, and conceptual articles that engage with the conference theme:

Suggested Research Topics:

Science, Engineering & Technology, Computer Science

- Integrating Indigenous Knowledge with Modern Climate Science
- Cross-Cultural Collaboration in Public Health Technologies
- AI Ethics and Society: A Cross-Disciplinary Framework
- Environmental Pollution & Health

Art's, Commerce & Management

- Intersections of art, culture, and society
- Collaborative creativity in visual and performing arts
- Cultural narratives, traditions, and global interconnectedness
- The role of art and design in shaping inclusive futures
- Cultural Intelligence in Global Business Leadership
- Green Finance and ESG Investing: A Cross-National Approach
- Collaborative Economic Models for Rural and Urban Integration

Education & Social Sciences

- Multidisciplinary Pedagogy for Future-Ready Education
- Building Peace through Intercultural Education Systems
- Digital Divide and Inclusion in Post-Pandemic Learning

Environmental Studies

- Global Environmental Policies: A Collaborative Governance Model
- Community-Science Partnerships for Local Sustainability
- Green Cities: Integrating Urban Planning and Social Sciences

Law, Ethics & International Relations

- Human Rights in the Age of AI: A Legal and Ethical Study
- Collaborative Environmental Law between Nations
- Cross-Border Data Governance and Digital Sovereignty

Library Science

- The Role of Libraries in Promoting Cross-Cultural Knowledge Exchange
- Digital Libraries and their Impact on Global Collaborative Research
- Preserving Indigenous Knowledge through Library Science
- Building Inclusive Digital Archives for Diverse Cultures and Communities
- Information Literacy and Cross-Cultural Understanding in a Globalized World

Medical science and Pharmaceutical sciences

- Collaborative Approaches to Combatting Global Health Inequalities
- Cross-Cultural Collaboration in Tackling Pandemic Preparedness and Response
- Ethical Considerations in Cross-Cultural Medical Research
- The Impact of Globalization on Healthcare Systems: Lessons from Collaborative Practices
- Tele medicine and its Role in Bridging Healthcare Gaps Across Cultures
- Collaborative Research on Traditional Medicine and Modern Healthcare Integration
- Artificial Intelligence in drug discovery and drug development.

Agriculture Science

- Collaborative Research on Sustainable Agriculture Practices for Diverse Ecosystems
- Cross-Cultural Approaches to Achieving Global Food Security
- The Role of Agri-Tech in Bridging Cultural Barriers for Sustainable Farming
- Climate-Resilient Crops: A Global Collaborative Approach to Agriculture
- Sustainable Land Use Practices: Integrating Traditional and Modern Agricultural Knowledge
- Collaborative Solutions for Water Management in Agriculture Across Different Regions

Submission Guidelines

Paper Size:

A4 size (210mm × 297mm)

File Format:

Microsoft Word (.doc or .docx)

Author Name(s) and Affiliation:

Font: Times New Roman
Size: 12 pt (Centered)

Title of the Paper:

Font: Times New Roman
Size: 14 pt (Bold, Centered)

Font for Hindi:

Mangal or Kruti Dev 010 (as per preference)
Font Size (Hindi): 12 pt

Font for English:

Times New Roman
Font Size (English): 12 pt

Participants send Abstract & Research Paper on
E-mail : conference@pkuniversity.edu.in

- Last Date for Abstract Submission : **28th May 2025**
- Last Date Full-Length Paper Submission: **09th June 2025**
- Notification of Acceptance : **5th June 2025**

Organizing Structure

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Chancellor
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Dr. Kaushal Naresh Amar
Assistant Professor, Faculty of Commerce
P.K. University, Shivpuri (M.P.)

Registration Fees:

- UG/PG Students: ₹500
- Research Scholars: ₹1000
- Academicians: ₹1500
- Industry Professionals: ₹1500
- Foreign Delegate : \$50

Account Name :

Registrar, P.K.University, Thanra Shivpuri (M.P.)
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IFSC Code : SBIN0030125

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For Registration, follow the link

https://docs.google.com/forms/d/e/1FAIpQLSft-Dhl08_G35KKUNbjrNHdxKNIK



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👤 Mrs. Vinita Singh

👤 Ms. Jaanvi Awashthi

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Message from the Chancellor

Mr. J.P. Sharma

Hon'ble Chancellor,
P.K. University, Shivpuri (M.P.)



It gives me immense pleasure to extend my heartfelt congratulations to the Faculty of Science & Commerce and the Organizing Committee for hosting the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines" at P.K. University, Shivpuri.

In an era marked by rapid global transformation and interdisciplinary integration, such academic gatherings serve as a vital platform for intellectual dialogue, innovation, and cultural exchange. The conference theme is both timely and relevant, encouraging scholars, researchers, and professionals to transcend boundaries and explore collaborative solutions for a sustainable and inclusive future.

I am confident that the deliberations and contributions compiled in this Abstract Book will enrich academic discourse and inspire meaningful research collaborations.

I extend my best wishes for the grand success of the conference and commend all participants for their scholarly efforts.

With warm regards,

A handwritten signature in blue ink, appearing to read 'J.P. Sharma', written over a white background.

Mr. J.P. Sharma

Hon'ble Chancellor,
P.K. University, Shivpuri (M.P.)

Message from the Vice Chancellor

Prof. Dr. Y.C. Dubey

Vice Chancellor,
P.K. University, Shivpuri (M.P.)



It is a matter of great pride and academic significance that P.K. University is organizing the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines." I extend my warm greetings to all the distinguished delegates, researchers, academicians, and students participating in this scholarly endeavor.

I sincerely appreciate the Faculty of Science & Commerce and the Organizing Committee for their dedicated efforts in bringing together eminent minds from across the globe. I am confident that the presentations and interactions documented in this Abstract Book will serve as a valuable resource for academic growth and research excellence.

I wish the conference grand success and hope it opens new avenues for collaborative learning and impactful research.

With best wishes,



Prof. Dr. Y.C. Dubey

Hon'ble Vice Chancellor,
P.K. University, Shivpuri (M.P.)

प्रो. प्रेम प्रकाश सिंह

पीएचडी (भारत), पोस्ट डॉक(अमेरिका)

कुलपति

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PhD (Bharat), Post Doc (USA)

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VICE-CHANCELLOR'S MESSAGE



I am deeply honored and delighted to extend my warm greetings to the Patron and Convenor of the 2nd International Conference on *Collaborative Futures: Bridging Ideas, Cultures, and Disciplines*, scheduled to be held on June 14, 2025, at P.K. University, Shivpuri (M.P.). This gathering represents a meaningful step toward fostering interdisciplinary dialogue and cooperation across global frontiers.

As a problem-solving species, humanity has consistently sought solutions that transcend immediate challenges, often driven by a deeper quest for meaning and transformation. The theme of this conference underscores the vital role of collaboration in addressing shared global goals. By embracing diverse ideas, cultural perspectives, and academic disciplines, we can unlock innovative pathways to navigate the complex and interconnected issues facing our world today.

Bridging cultures, in this context, is about more than just recognizing differences—it involves actively cultivating mutual understanding, respect, and appreciation for the values, beliefs, and traditions of others. It is through this cultural empathy that we foster deeper connections, promote cooperation, and build stronger, more inclusive communities at both the local and global levels.

Creativity, invention, and innovation have always been the driving forces behind human progress. In the contemporary era, science and technology have propelled us into a new age of bio-digital convergence—characterized by advancements in quantum computing, artificial intelligence, and the fusion of biology with digital systems. We are now in an era of combinatorial innovation, where interdisciplinary collaboration enables us to merge diverse ideas and methodologies in unexpected yet powerful ways to address global challenges more holistically than traditional, siloed approaches. The modern era of Fourth Industrial

Revolution (Industry 4.0) marks a new era defined by automation, data exchange, and smart technologies that are reshaping manufacturing, services, and society as a whole. These innovations are now paving the way for Industry 5.0, which emphasizes human-centric technology, sustainability, and ethical innovation.

Nature-inspired strategies must also guide our innovations, helping us optimize resource use and develop sustainable supply chains. The pressing challenges of the 21st century—climate change, global warming, food insecurity, pollution, energy crises, public health emergencies, and extreme poverty—transcend scientific, economic, and political boundaries. Their complexity demands integrated and collaborative responses. For example, climate change is not solely an environmental issue; it impacts economic systems, public health, infrastructure, and geopolitical stability. Similarly, the COVID-19 pandemic exposed vulnerabilities across healthcare, global supply chains, education, and social structures. Addressing such multifaceted problems requires interdisciplinary and cross-sectoral collaboration. Another compelling example lies in the development of Human Genome Project (HGP), a landmark international initiative that brought together experts in biology, engineering, and computer science. The HGP demonstrated the immense power of interdisciplinary teamwork in achieving ambitious scientific goals and has since shaped the future of biomedical research.

While technology advances at breakneck speed, the contemporary world simultaneously faces an array of interconnected global challenges. These include:

- **Health threats:** pandemics, antimicrobial resistance (AMR), mental health crises, and the rise of non-communicable and neurodegenerative diseases.
- **Environmental issues:** climate change, biodiversity loss, pollution, and natural resource depletion.
- **Socio-political challenges:** inequality, poverty, human rights violations, forced migration, terrorism, conflict and war, and cybersecurity threats.
- **Economic issues:** food insecurity, financial instability, debt crises, and the widening digital divide.

In this context, India's **National Education Policy 2020 (NEP 2020)** is a transformative initiative. It aims to establish higher education institutions as hubs of interdisciplinary learning and research, fostering economically viable innovation, entrepreneurship, and lifelong skill development to meet the demands of the 21st-century workforce.

Let us reaffirm our commitment to the United Nations Sustainable Development Goals (SDGs), which vows for ending global poverty and hunger, advocates for good health, quality education, gender equality, clean water, and affordable clean energy, while promoting decent work, innovation, reduced inequalities, sustainable communities, responsible consumption, climate action, peace and justice, and strong global partnerships.

The timely and relevant theme of this conference '*Collaborative Futures: Bridging Ideas, Cultures, and Disciplines*' aligns with the needs and expectations of stakeholders, experts, influencers, and innovators committed to building a strong foundation for a collaborative and prosperous global future, with special focus on *Viksit Bharat @2047*. I extend my best wishes for the grand success of the conference!

Prem Prakash Singh
Professor Prem Prakash Singh
Vice-Chancellor

Message from the Director

Dr. J.K. Mishra

Director (Administration),
P.K. University, Shivpuri (M.P.)



It is a privilege to extend my warm greetings and heartfelt congratulations to the organizers of the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines." This academic initiative reflects the university's commitment to fostering research, innovation, and meaningful exchange of ideas at a global level.

In a rapidly evolving world, the spirit of collaboration across disciplines and cultures is essential for driving impactful solutions and shaping inclusive progress. This conference provides an excellent platform for scholars and professionals to connect, share insights, and explore new frontiers of knowledge.

I commend the Faculty of Science & Commerce and the Organizing Committee for their dedicated efforts in making this event a reality. I am confident that the Abstract Book will be a testament to the diversity of thought and academic excellence presented during this conference.

Wishing the event great success and continued inspiration for all participants.

With best wishes,

A handwritten signature in black ink, appearing to read 'Dr. J.K. Mishra', written in a cursive style.

Dr. J.K. Mishra

Director (Administration),
P.K. University, Shivpuri (M.P.)

Message from the Dean Academics

Prof. Aiman Fatma

Dean Academics,
P.K. University, Shivpuri (M.P.)



I am delighted to share my thoughts on the occasion of the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines," being hosted by P.K. University. This conference represents a significant step toward fostering academic dialogue and interdisciplinary collaboration among researchers, academicians, and thought leaders from across the globe.

As Dean (Academics), I firmly believe that academic excellence is best achieved through exposure to diverse perspectives, rigorous discourse, and a spirit of innovation. The theme of the conference resonates deeply with our vision of nurturing holistic and globally relevant education.

I extend my appreciation to the Faculty of Science & Commerce and the Organizing Committee for their exemplary planning and dedication. I am confident that the insights captured in this Abstract Book will serve as a foundation for future research collaborations and academic growth.

Wishing all participants a fruitful and enriching experience.

With best wishes,

A handwritten signature in black ink, appearing to read 'Aiman Fatma', written over a thin horizontal line.

Prof. Aiman Fatma

Dean Academics,
P.K. University, Shivpuri (M.P.)

Message from the Registrar

Dr. Deepesh Namdev

Registrar,
P.K. University, Shivpuri (M.P.)



It gives me immense pleasure to be part of the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines," hosted by P.K. University, Shivpuri. This academic initiative is a commendable effort toward fostering intellectual synergy and promoting interdisciplinary dialogue.

In today's fast-evolving academic and professional landscape, it is crucial to create platforms that bring together diverse perspectives, disciplines, and cultural insights. This conference is a step in that direction, offering scholars and researchers a valuable opportunity to exchange ideas and engage in meaningful collaboration.

I extend my heartfelt congratulations to the Faculty of Science & Commerce and the Organizing Committee for their hard work and dedication in organizing this prestigious event. I am confident that the outcomes of the conference, as reflected in this Abstract Book, will contribute significantly to academic discourse and inspire future research initiatives.

Wishing the conference great success and all participants a fruitful and enriching experience.

With best wishes,

A handwritten signature in black ink, appearing to read 'Deepesh Namdev', with a horizontal line underneath.

Dr. Deepesh Namdev

Registrar,
P.K. University, Shivpuri (M.P.)

Message from the Dean of Faculties

Dr. Jitendra Kumar Malik

Dean of Faculties,
P.K. University, Shivpuri (M.P.)



It is a great privilege to extend my warm greetings to all the participants, academicians, and researchers attending the International Conference on "Collaborative Futures: Bridging Ideas, Culture, and Disciplines," organized by P.K. University, Shivpuri (M.P.)

This conference marks a significant step forward in our collective academic journey. By bringing together diverse disciplines, cultures, and perspectives, we pave the way for new ideas, impactful collaborations, and global understanding. The theme is not only timely but also visionary in its call for unity in thought and innovation across fields.

The Abstract Book is a valuable record of the scholarly contributions presented during the event. It represents a wealth of knowledge and the collaborative spirit that defines the essence of this academic gathering.

I congratulate the Faculty of Science & Commerce, the Organizing Committee, and especially the Organizing Secretary for their dedication and commitment to excellence. I wish the conference grand success and hope it leads to long-lasting academic engagements.

With best wishes,

A handwritten signature in black ink, appearing to read "Jitendra".

Dr. Jitendra Kumar Malik

Dean of Faculties,
P.K. University, Shivpuri (M.P.)

Organizing Committee



Dr. Ashish Kumar Viswkarma

Chief Organizer, ICCFBCD-25
Head, Faculty of Science
P.K. University, Shivpuri (M.P.)



Dr. Kaushal Naresh Amar

Organizing Secretary, ICCFBCD-25
Assistant Professor, Faculty of Commerce
P.K. University, Shivpuri (M.P.)

It is a moment of immense satisfaction and joy to present the International Conference on “Collaborative Futures: Bridging Ideas, Culture, and Disciplines” (ICCFBCD-25), organized under the esteemed banner of P.K. University.

This conference stands as a testament to our continuous pursuit of academic excellence and global engagement. The selected theme emphasizes the need to build bridges between diverse ideas, disciplines, and cultures in order to foster innovation and sustainable development in a dynamic global landscape.

The Abstract Book you hold in your hands is not merely a collection of research summaries, but a reflection of rigorous scholarship, intellectual diversity, and collaborative spirit from contributors around the world. It captures the essence of what we hope to achieve through this academic gathering — meaningful dialogue, research partnerships, and interdisciplinary insight.

I express my heartfelt thanks to our Hon’ble Chancellor, respected Vice Chancellor, Director (Administration), Organizing Secretary, and the entire organizing committee whose efforts have made this conference possible. Special gratitude to all the participants whose contributions make this event truly impactful.

With best wishes,

A handwritten signature in black ink, appearing to read 'Ashish'.

Dr. Ashish Kumar Viswkarma

Chief Organizer, ICCFBCD-25
Head, Faculty of Science
P.K. University, Shivpuri (M.P.)

A handwritten signature in black ink, appearing to read 'Kaushal'.

Dr. Kaushal Naresh Amar

Organizing Secretary, ICCFBCD-25
Assistant Professor, Faculty of Commerce
P.K. University, Shivpuri (M.P.)

International Research Journal

June:-2025

ISSUE No - (II)

A International Research Journal

“Collaborative Futures: Bridging Ideas, Cultures and Disciplines”

ICCFBCD-25

Saturday, June 14, 2025

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