



# J.S. UNIVERSITY

(University established by U.P. Govt. Act No. 7 of 2015)

## RISEMH -2024 25th-26th October -2024



We are the **FUTURE**

### **3<sup>rd</sup>** **INTERNATIONAL** **MULTIDISCIPLINARY CONFERENCE**

on Recent Innovations in Science,  
Engineering, Management and Humanities



## About Us:

J.S. University, Shikohabad (U.P.) has been established under Uttar Pradesh act no.7 of 2015 and recognized by University Grants Commission (India) under section 2(f) of its act.

University provides opportunity to the rural background and weaker section of the society in order to provide quality education with hands-on experience and learning. Students will be able to achieve different levels of learning. University work with industrial collaboration while bridging the gap between academia & industry. This linkage within the different sectors of the corporate world would assist to produce efficient technocrats to the market.

The university aims to lead the nation in research and education. We seek to do this in a way which benefits society on a national and a global scale. Creation through economic, social and environmental development targeted to an increasingly global and multicultural world.

We exist to create transformative experiences for our students, getting them ready for better life and work, and to help shape the world with research, innovation, teaching and engagement. University offers an education deeply grounded in ideas and cross-disciplinary understanding, applied through innovative, enterprising practice for solving problems and meeting the needs of our community.

# MANAGING BODY



**Dr. Sukesh Kumar**  
Chancellor

Since its establishment, based on the founder ideals of "freedom and innovation," the education at JS University has allowed students to acquire various skills and values that are synonymous with a private-school environment. Over the years, such efforts have cultivated and sent a wealth of human resources out into the world. However, in the coming years, we must also focus on education that develops creative individuals

that modern society needs. With this in mind, we must not only encourage a high-level of classroom learning, but also actively involve students in cutting-edge research activities conducted by our laboratories, encourage students to expose themselves to new challenges, and produce individuals capable of facing and resolving the tough challenges in the real world. In order to successfully produce such individuals.



**Dr. P.S. Yadav**  
Pro Chancellor

The University has successfully established an active learning environment which equips its students with in-depth knowledge and skills, critical and creative ways of thinking. We strongly believe in providing our students with motivation, encouraging participation and making students feel responsible in their learning process. At JS University, our teaching philosophy is open and broad in dealing with different views and opinions. Our

teachers are fully aware that every student is unique and has his own learning attitude. We are committed to shape the young minds whose roots are deeply seated in high moral values and who are capable of facing all the modern-day challenges in a positive, logical and systematic manner. Then only, our future generations will be equipped with the Godly Wisdom and the destiny of our society and beloved nation will be in safe and strong hands.

# GOVERNING BODY



**MR. ASHOK KUMAR**

MANAGING TRUSTEE  
Department Of Revenue

Professional education is a dynamic and emerging field. It has been my long cherished dream and earnest desire to contribute to the nation's development and bring about social transformation through education. Our University have a reputation for pioneering in pursuit of academic excellence and achieved laurels worth of creators and it is continuously striving for higher ground. Due to imparting quality education and homely

atmosphere, we have emerged as the preferred choice for aspiring students. It is noteworthy that we have established strong bondage in industry and our students are working in top ranked organizations and withdrawing very handsome packages. We are committed to upgrade and sustain the academic delivery system and University's infrastructure in tune with future requirements.



**Dr. Geeta Yadav**

Vice Chairperson

The dynamics of higher education across the globe are changing rapidly and are increasingly becoming a collaboration of academic disciplines with practical experiences. Interactive learning, bridging disciplines and facilitating learners to gain different competencies through judicious management of time is viewed as one of the greatest and fascinating priorities and challenges today. Research indicates that India would soon be amongst the youngest nations in the world. With nearby 140 million people in the college-going age group, one in every four graduates in the world will be a product of the Indian Higher Education System. In such a predicted scenario, quality-assured higher education and knowledge-based economy are a crucial part of the foundation pillars for the progress of our country.

# GOVERNING BODY



**Dr. Himanshu Yadav**  
Member of Governing Body

We at J.S. University believes in the philosophy of 'modernity blends with tradition, while fostering talent'. We are committed towards this philosophy and thus constantly compliments classroom learning with extracurricular activities. We are committed to incorporate path

breaking ideas, cutting edge technologies and latest research trends into academics and scholastic work for the benefit of students, research scholars, faculty members and other associated academicians across the globe.



**Dr. Shubham Yadav**  
Member of Governing Body

Our Core Aspiration is to provide an Educational Excellence, in that every student makes a positive difference during the time with us. In expecting Excellence we ensure that students enjoy the curriculum in a happy, safe and secure

atmosphere designed to fulfill their potential. We also strive to provide a caring, supportive and challenging environment to the students, in which they can grow and flourish to the esteemed heights.



# ADMINISTRATIVE BODY



**Prof. B.P. Agrawal**  
(Vice Chancellor)

When education enables young brains to blossom into their actual selves and brings out the best in them for the betterment of nation building is it truly beneficial. A progressive society starts with a youthful mind that is self-assured, proud of its rich legacy, and equipped with the mindset and abilities to deal with today's problems. There are no shortcuts to

excellence; instead, we will grow closer to realizing our goals via the combined efforts of the administration, staff, and students. I'm excited to collaborate with all of our supporters and stakeholders on this difficult path to achieving our objective.



**Dr. Gaurav Yadav**  
Director General

With another year of successful advancement towards the achievement of excellence in education, JS University has added accolades to its credits. Aligning with the requirements of the global market, where the right set of knowledge, skills and attitudes is the key to meet the requirements of the globalized economy

and the opportunities across the globe, JS University has nurtured its students not only for the corporate opportunities but also sensitized them to the important issues of the global research.

# IN ASSOCIATION WITH



King Abdulaziz University  
Jeddah, Saudi Arabia



University for Humanities,  
Moscow, Russian State



Jawahar Lal Nehru University,  
New Delhi



Jamia Millia Islamia,  
New Delhi



Birla Institute of Technology  
and Science, Goa



National Institute of  
Technology, Hamirpur



Indian Institute of Information  
Technology, Bhopal



Lovely Professional University,  
Punjab, India.



Jamia Hamdard, New Delhi



Graphic Era  
(Deemed to be Uni.) Dehradun



Manipal University Jaipur,  
Rajasthan



Sharda University  
Greater Noida, India



Deen Dayal Upadhyaya  
Gorakhpur University



Veer Bahadur Singh  
Purvanchal University (Jaunpur)



Babasaheb Bhimrao Ambedkar  
University Lucknow



Indira Gandhi National Open  
University



Sherubtse College Royal  
University of Bhutan



Hemvati Nandan Bahuguna  
Garhwal University



Rajkiya Engineering College  
Mainpuri



Mahatma Gandhi Central  
University, Bihar



Institute of Environment and  
Sustainable Development, Banaras  
Hindu University, Varanasi



Al-Karim University,  
Katihar, Bihar



J.C. Bose University of  
Science & Technology, YMCA,  
Faridabad, HR



University of Medical Sciences  
Safai, Uttar Pradesh



IARS PRESS



Oil and Natural Gas Corporation  
(ONGC), Vadodara



Blue Planet, Environmental  
Solutions, Singapore



Smt. Vidyawati College of  
Nursing, Jhansi, Uttar Pradesh



IARS



Conference World

# CONFERENCE OVERVIEW

Multidisciplinary and transdisciplinary research is crucial for the advancement of comprehensive knowledge bases in the educational sector and for driving progress across various global research domains. The International Multidisciplinary Conference on Recent Innovations in Science, Engineering, Management, and Humanities (RISEMH-2024) is dedicated to advancing cutting-edge innovations and technologies in Applied Sciences, Engineering, Agriculture, Management, Humanities, and other relevant fields, aiming to address societal and scientific needs.

This conference aspires to disseminate ground breaking inventions, emerging trends, and novel discoveries, and to explore their practical applications for societal

benefit. It will serve as a platform for both established experts and emerging researchers to exchange their insights and findings, thereby fostering exploration in futuristic interdisciplinary research domains. By facilitating the exchange of knowledge and ideas across Science, Engineering, and Humanities, this event will stimulate meaningful dialogue and collaboration.

Building on the success of RISEMH-2024, organized by JS University, Shikohabad, we are delighted to continue this tradition with RISEMH-2024. This upcoming conference will be supported by eminent scientists, engineers, and educators. We extend a warm invitation to all to join us for this prestigious international event.

## ORGANIZING COMMITTEE

<b>Chief Patron</b>	- Prof. Banshi Prasad Agrawal
<b>Convener</b>	- Dr. Gaurav Yadav
<b>Co-Convener</b>	- Dr. Harendra Kumar, Dr. Amit Kumar Chaturvedi and Er. Divyanshu Gupta
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<b>Joint Secretary</b>	- Dr. Imran Ahmad Salmani and Dr. Nupur Raghav

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- Mr Prashant Yadav, HOD, Dept. of Education
- Lt. Shailendra Yadav, HOD, Dept. of Physical Education



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- Dr. Nisha Baliyan, HOD, Dept of History
- Dr. Anjali Rao, HOD, Dept of Drawing & Painting
- Dr. Ziya Farooque, HOD, Dept of Psychology

## INTERNATIONAL ADVISORY COMMITTEE

- Dr Stephen R. Barnhart, President and founder of Barnhart International and IBEC, International Consultant for IU Panama
- Dr. Peter Elmar Bordo, Executive Director, Workforce Career Institute in Ibayay, Aklan, Philippines
- Dr. Mohammad Shahnawaze Ansari, King Abdulaziz University, Jeddah, Saudi Arabia
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- Dr. Sarvar Hussain, Korea Advanced Institute of Science & Technology (KAIST), South Korea
- Mr Sangsoo Koo, President of Indian Korean Association

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- Prof. Nandini Sahu, Indira Gandhi National Open University
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- Dr. Deependra Singh, Rajkiya Engineering College, Mainpuri
- Dr. Prakash Singh, Rajkiya Engineering College, Mainpuri
- Dr. Sunil Kumar, IIT, Bhopal
- Dr. Sarvan Kumar, Veer Bahadur Singh Purvanchal University, Jaunpur
- Mr. Harsh Mehrotra, Cofounder & CEO Blue Planet Skills Pvt. Ltd., New Delhi

# THRUST AREAS

## Chemistry

- Organometallic & Supramolecular Chemistry
- Bio-inorganic, Bio-organic & Bio-Physical Chemistry
- Synthetic Organic Chemistry
- Material Science
- Natural Product and Green Chemistry
- Polymer Sciences
- Computational Chemistry
- Analytical Chemistry
- Thermodynamics, Surfactants & Solution Chemistry
- Medicinal Chemistry
- Catalysis

## Physics

- Astrophysics
- Condensed Matter Physics
- Acoustics
- Laser Plasma Interaction
- Nanotechnology
- Radiation Physics
- Electronics
- Photonics
- Biophysics
- Material Science
- Nuclear Physics
- Computational Physics

## Mathematics

- Analysis and Algebra
- Operations Research
- Mathematical Modelling
- Fluid Dynamics and Solid Mechanics
- Numerical Analysis
- Cryptography
- Mathematical Tools and Techniques
- Fuzzy Set and Its Application
- Geometry and Topology
- Discrete Mathematics
- Biostatistics and Biomathematics

## Engineering and Information Technology

- Advanced Electronics and Embedded Systems
- Green and Sustainable Technology
- Advanced Manufacturing and Materials
- Smart Cities and Transportation Systems
- 5G and Beyond Wireless Technologies
- Renewable Energy Production
- IOT, Cyber security, Cluster, Edge Computing and Cloud Computing
- Construction and Civil Engineering
- Robotics & Advanced Manufacturing
- AI & Data Science Applications
- Power Systems and Smart Grids
- Manufacturing Processes and Systems
- Solid Mechanics , Biomechanics and Bioengineering
- Computational Mechanics

## Applied Science

- Innovations in Renewable Energy
- Advancements in Biomedical Engineering
- Environmental Engineering & Climate Mitigation
- Smart nanomaterials and its Application

## Agriculture

- Sustainable Agriculture and Food Technology
- Agronomy and Food Production
- Genetics and Plant Breeding
- Biotechnology and Genetic Engineering
- Horticulture and Vegetables crops
- Agroforestry and Agricultural Extension



## Biosciences and Healthcare

- Bioinformatics
- Biotechnology
- Ecology
- Biodiversity
- Genetic Disorder
- Healthcare Techniques
- Hospital Management
- Natural Remedy & Natural Conservation
- Taxonomic Zoology
- Taxonomic Zoology
- Medical Surgical Nursing
- Child Health Nursing
- Mental Health Nursing
- Obstetrics and Gynaecology
- Community Health Nursing
- Nursing
- Medical Surgical Nursing
- Child Health Nursing
- Mental Health Nursing
- Obstetrics and Gynaecology
- Community Health Nursing

## Management

- Marketing Management
- Finance
- IT Management
- HR
- Operation Management
- Industrial Management
- Production Management

## Pharmaceutical Sciences

- Pharmaceutics
- Pharmacology
- Pharmaceutical Chemistry
- Pharmacognosy
- Pharma Biotechnology

## Commerce

- International Trade and Business
- Financial Markets and Institutions
- Corporate Governance and Ethics
- E-commerce and Digital Marketing
- Sustainability and Green Business Practices
- Entrepreneurship and Innovation
- Taxation and Policy Reforms

## Education

- Globalization of Education and International Curriculum Development
- Innovative Pedagogies and Teaching Practices
- Technology-Enhanced Learning
- Inclusive Education and Special Needs Support
- Higher Education Leadership & Policy Development
- Lifelong Learning and Adult Education
- Education for Sustainable Development
- Assessment and Evaluation in Education

## Law

- Human Rights & Global Justice
- Cyber Law & Digital Privacy
- International Trade & Economic Law
- Criminal Justice & Restorative Practices

## Humanities

- Economic Globalization and Its Social Effects
- Gender Inequality and Feminist Movements Globally
- Digital Sociology: Social Media's Societal Impact
- Cultural Diversity and Social Integration in Multicultural Societies
- Linguistic Diversity and Hindi's Future in a Multilingual World
- Postcolonial Literature and Global Narratives
- Globalization and English Language Teaching
- Cross-Cultural Interactions in World Literature
- Geopolitics and Climate Change: A Global Perspective
- Sustainable Urban Development: Innovations and Challenges
- Natural Disasters and Global Response Strategies
- Sanskrit Literature's Contribution to World Heritage
- Family Dynamics and Well-being
- Mental Health Across Cultures
- Cognitive Psychology and Technology
- Social Media's Impact on Behavior
- Historical Narratives and National Identity
- Sports Training Innovations
- Technology in Physical Education

# CHIEF GUEST



## Prof Vinay Kumar Pathak

Vice Chancellor CSJMU, Kanpur, President of AIU,  
Former Vice Chancellor of AKTU, Lucknow

Professor Vinay Kumar Pathak is an administrator of excellence and an exemplary scholar. He has completed his undergraduate education at the prestigious institution Harcourt Butler Technological Institute, Kanpur (now known as HBTU, Kanpur). He is also an alumnus of the renowned Indian

Institute of Technology, Kharagpur. A computer scientist by training, Prof. Pathak has a career ranging over twenty-six years of visionary leadership as faculty of Computer Science, Professor & Dean of the School of Computer Sciences, Harcourt Butler Technical University, Kanpur, and the Vice Chancellor of eight different Universities in Uttar Pradesh, Rajasthan and Uttarakhand. In all his administrative capacities, he has steered numerous institutions into the era of technological advancement with the available resources. He recently, in 2024, was unanimously elected as the President of the Association of Indian Universities, Delhi, after serving there as the Vice President for a year. His administrative philosophy is guided by the unwavering belief in the amalgamation of traditions with futuristic progressions to confide the

pace and direction of growth and development on the giant shoulders of our ancestral epistemology and axiology. Prof. Pathak has had a long career as vice chancellor of eight universities nationwide. He excellently has managed multiple Universities for three full terms, namely Uttarakhand Open University, Haldwani, VMOU, Kota with an additional charge of Rajasthan Technical University, Kota; Dr. APJ Abdul Kalam Technical University with an additional charge of HBTU, Kanpur,

Khawaja Moinuddin Chishti Language University, Lucknow and Chhatrapati Shahu Ji Maharaj University with an additional charge of Dr. Bhimrao Ambedkar University, Agra. This remarkable feat of inspiring multitasking speaks of his outstanding leadership qualities. Prof. Pathak's unwavering commitment to the scholarly pursuit, in the midst of his highly occupied administrative roles, can be measured by his forty-six-research publication in various international journals of repute in the field of computer technologies and a patent for an 'adjustable mounting system for solar panel arrays with clamping and securing mechanisms'. However, these numbers do not measure the everyday innovations he makes as an administrator. He is known to constantly guide the development team to produce logic for systems of management that are largely unheard of. Prof. Pathak does not believe in gatekeeping any kind of progress or knowledge; hence, he has been sharing his ideas with the students and enthusiasts of the discipline through more than two dozen special presentations and lectures in the area of computer science. He proudly has guided ten students in the Doctoral degrees, who have greatly benefitted from his expertise. Prof. Pathak is also an enthusiastic speaker in the area of Administration and practical usage of technological advancements for universities, for which he has been invited to various South-Asian and European nations to share his wisdom and motivate the new generation of higher education administration.

Prof. Pathak's contribution to the higher education administration is unfathomable. Serving his role as the 'Son of Soil,' he has contributed as an active member of the Task Force Committee for New Education Policy implementation in Uttar Pradesh. His technological finesse has been recognized by the state and national governments who have entrusted him as a member of the Council of Science and Technology, Uttar Pradesh; All India Board of Undergraduate Studies in Engineering and Technology, AICTE; and NUEPA Council, NCERT. His tremendous leadership acumen is also recognized by various bodies who have appointed Prof. Pathak as Chairman of the Expert Committee of VCs for the

development of E-learning material appointed by the Governor of Uttar Pradesh, along with the Chairman of the Technical Committee of MP Bhoj Open University, Madhya Pradesh.

Prof. Pathak has been a well-respected member of the Board of Governance of various Institutions of National importance such as IIIT, Lucknow, and IIT, BHU. He is believed to have a Midas touch that can turn a humble institution into a powerhouse like Chitrakoot Gramodaya University, Chitrakoot, and Rajiv Gandhi Tribal University, Udaipur, along with companies like the Rajasthan Knowledge Corporation Limited, where he was a member of the establishment committee in Rajasthan. Prof. Pathak has unerring trust in the power of Indian Values and traditions that is also seen in his work as a member of the national committee for implementation of the model curriculum on Universal Human Values for all technical institutions across the nation. His contribution to the field of administration and to the advancement of human values is recognized by the Global-eLearning Award, 2012, and Humanitarian Award, 2021.

Prof. Pathak, in his star-studded career, has worked extensively for intersectional access of technology and education by the people irrespective of their backgrounds. His ideas, though extremely advanced, are rooted in the beliefs of soil and nation. His ideas of tech-based education and administration can be seen in practice at all the universities where students from various backgrounds are acquainted with advanced systems of teaching-learning material, assessment, and bureaucracy. Prof. Pathak is revered by his students for his belief in the constitutional values of democracy. He is known for inviting students to take charge of their educational life cycle at the universities by taking active roles in various student bodies. Prof. Pathak, in his professional demeanor, demonstrates an impressive level of warmth and understanding. His careful listening and considerate replies to each person demonstrate his sincere concern for the welfare of everyone. This kind of approach fosters rapport and trust between coworkers and constituents in addition to improving communication. Prof. Pathak is known to create a welcoming and inclusive atmosphere that promotes cooperation and respect for one another by continuously exhibiting qualities like empathy and understanding

# GUEST OF HONOUR

## Dr Stephen R. Barnhart

President and founder of Barnhart International and IBEC, International Consultant for IU Panama



Dr. Stephen R. Barnhart, Ed.D. is a distinguished professional with a robust background in business, education, consulting, and management. He holds a Bachelor of Science in Criminal Justice, an Advanced Diploma in Electronics Technology, an MBA, and a Doctor of Education in Higher Education Administration. He was recently awarded an Honorary Doctorate of Ministry from the Global Evangelical Christian College & Seminary and has served as both a Minister and Chaplain.

Dr. Barnhart's career is marked by notable accolades, including recognition for his consultancy work with the Kosovo Peacekeeping Mission and a letter of gratitude from the Royal Family of Saudi Arabia for his contributions to security. He has also been appointed as a security consultant to the Royal Family of Bahrain and received the Medal of Merit from President George W. Bush. His diverse roles include Police Officer, Sheriff's Deputy, and Certified Electronics Technician, showcasing his multifaceted expertise.

Currently, he serves as the Technical Surveillance Advisor for a major law enforcement agency in Missouri and Italy. Dr. Barnhart is the Founder and Chancellor of the former College of Security, Technology and Management, and acts as an International Consultant for IU Panama. He leads Barnhart International and IBEC, focusing on international relations and education.

His contributions to various sectors have earned him recognition as a member of The Presidential Business Commission and as "Businessman of the Year," as noted in the Wall Street Journal. He has facilitated educational opportunities with the Department of the Navy and consulted for law enforcement organizations in Italy. Dr. Barnhart's commitment to community service is reflected in honors such as the Kentucky Colonel and the Grand Masters Award for Masons.

Recently, he achieved over 300% growth in one of his companies, reaching \$1.5 million in revenue and gaining recognition in Ingram's corporate magazine. His leadership in the International Association of Personal Protection Agents has expanded its membership significantly, establishing it as one of the largest executive protection organizations globally.



# GUEST OF HONOUR



## Dr. Peter Elmar Bordo

Executive Director, Workforce Career Institute  
in Ibadan, Aklan, Philippines

Dr. Peter Elmar Bordo is a distinguished Academician and Certified Career Strategist based in Richmond, BC, Canada. With extensive experience in educational management, business administration, teaching, career coaching, and customer service. He is recognized for his exceptional contributions in the academic and professional development fields.

Currently he is serving as the Executive Director at Workforce Career Institute in Ibadan, Aklan, Philippines and maintains

professional relationships with external partners. In addition to his role at Workforce Career Institute, he is also the President of Careers360 Institute of Development in Vancouver, BC. He has previously held notable leadership roles, including Campus Director at Code Core College and Associate Campus Director at CDI College in Richmond, BC. He has a proven track record of driving strategic initiatives that improve campus performance, student satisfaction, and overall institutional success.

His career spans various roles such as Director of Marketing and Student Affairs at Academy of Learning Career College and Business Instructor at Canadian Tourism College, where he has contributed to both academic administration and student career success. He holds a Doctor of Education (Educational Leadership and Management), a Master of Business Administration, and a Master of Arts in Education (English), alongside numerous accolades such as the Outstanding Community Outreach Strategist (2017-2023) and Outstanding Job Placement Awardee (2016).



## Prof. Ram Chet Chaudhary

Padma Shri awardee,  
Chairman Participatory Rural Development Foundation

Dr. Ram Chet Chaudhary, an internationally renowned agricultural scientist and recipient of the prestigious Padma Shri award in 2024, has made significant contributions to global food security and sustainable agriculture. He earned his Ph.D. in Agricultural Botany from Agra University, with research conducted at CSIR - National Botanical Research Institute, Lucknow. He later pursued postdoctoral studies at the Technical University of Munich, Germany.

Beginning his career as an Assistant Professor at G.B. Pant University of Agriculture & Technology, Pantnagar, Dr. Chaudhary held pivotal roles as Chief Scientist and Director at Dr. Rajendra Prasad Central Agricultural University further he served as a Rice Specialist for the

World Bank in Nigeria. His decade-long role as INGER Global Coordinator at the International Rice Research Institute (IRRI) expanded his influence worldwide. At the Food and Agriculture Organization (FAO), he played a key role in enhancing food security across 40 countries in Asia, the Middle East, and Africa.

Currently, as Chairman of the Participatory Rural Development Foundation (PRDF), he continues to advocate for rural development. With over 390 publications and the development of 150 rice varieties, including heritage Kalanamak rice, his work has been transformative in Indian agriculture. Prof. Chaudhary's outstanding contributions have been honored with 57 national and international awards, solidifying his legacy in agricultural science.

# GUEST OF HONOUR



**Mr Sangsoo Koo**

President of Indian Korean Association

Mr. Sangsoo Koo is a highly accomplished professional with a distinguished career across various industries, marked by corporate excellence and a commitment to social welfare. He began his academic journey with a Bachelor's degree in Engineering from National Busan University in 1982 and later earned a degree in Business Administration from National Changwon University in 1999, establishing a solid foundation for his career in Korea's industrial and technological sectors.

Koo started his professional career at Daewoo Shipbuilding and Heavy Machinery in 1983, where he served as Director until 1987. His leadership in managing large-scale industrial projects played a significant role in positioning Korea as a global leader in shipbuilding and heavy machinery production.

In 1988, Koo transitioned to LG Electronics, where he served as Director for over a decade. He was instrumental in the company's international expansion and in enhancing its competitive position during a period of significant technological advancement.

He continued his leadership journey as Managing Director at Taekyung Tech from 2000 to 2002 and ILJIN Electronics Pvt. Ltd. from 2003 to 2004, driving technological advancements and business growth in the tech industry.

Beyond his corporate endeavors, Koo has been deeply involved in social welfare initiatives. From 2014 to 2018, he served as Chairman of the Korean Association, promoting social equity and community development. He also contributed to peace initiatives as a member of The Peaceful Unification Advisory Council of the Republic of Korea during the same period.

In recognition of his exceptional contributions, Sangsoo Koo received the prestigious Medal of Honor from the President of the Republic of Korea on June 5, 2023, reflecting his lifelong dedication to leadership, innovation, and social responsibility.

## SESSION CHAIR



**Dr. Deepak Jain**

Chief Executive Officer (Nirmal Integrated Consultancy Pvt. Ltd.), Academic & Administrative Process Consultant, NAAC Consultant, NIRF Consultant, NBA Consultant, Business Excellence/Quality Head, Certified Practitioner/Auditor ISO27001, GDPR, TL9000, CMMi, Six Sigma, Agile Scrum.



**Dr. Prakash Kumar Singh**

Assistant Professor, Head, Department of Computer Science and Engineering, Rajkiya Engineering College, Mainpuri, Uttar Pradesh, India

# KEYNOTE SPEAKER



**Dr. Veronika Yarnykh**  
Russian State University for Humanities, Moscow

Dr. Veronika Yarnykh received a Ph.D. degree in the Economy in the year of 2003. She is currently working as an Associate Professor in Media Communication in the Faculty of Journalism and Head of master's program "International Journalism & Global Communications", Co-leader of UNESCO Global Gown & Town Initiative (together with Sao Paulo University). Her professional interests are in media education, L&D corporate system, global corporate communication, brand journalism. She is an UNESCO expert in media and information literacy, ICRD expert in MIL and media influence. She is also Visiting professor at Milan State

University and host of MIL Talk. Her main research is devoted to brand journalism, corporate education system, corporate L&D system, global communication and modern urban media space.



**Prof. Nandini Sahu**  
(Former Director) Indira Gandhi National Open University

Dr. Nandini Sahu is a Former Director of School of Foreign Languages at Indira Gandhi National Open University, Delhi. Her area of research interests are Indian Knowledge Systems, Hindu Studies, Indigenous Knowledge Systems, Folk Literature, English Studies, American Literature, Literary Theory and Systemic Research in Open and Distance Learning. She has guided Ph.D. as a supervisor and co-supervisor also. Her research work is published in reputed Journal and also in several books. She has composed remarkable poetry which is included in the syllabus of various Universities. She has attended International and National Conferences and received various prestigious awards like

Bouddha Creative Writers' Award from Konark Festival, Odisha in 2012, Gold Medallist for Contributions to English Studies in 2019, Poiesis Award of Honour(International), by Poiesis Online in 2019, Michael Madhusudan Academy Award in 2023, She is peer reviewer of Shodh Kosh: Journal of Visual and Performing Arts.



**Dr. Deependra Singh**  
Director, Rajkiya Engineering College, Mainpuri

Dr. Deependra Singh currently serving as Director of Rajkiya Engineering College, Mainpuri. He holds a Ph.D. in Electrical (Power Systems) from UP Technical University, Lucknow (2009), an M.E. in Electrical Engg. (Measurement & Instrumentation) from University of Roorkee (1999), and a B.Tech. in Electrical Engineering from HBTI Kanpur (1997). With over 23 years of academic experience and 10 years of administrative experience, Dr. Singh has held various positions, including Registrar, Controller of Examinations, and Hostel Warden. His expertise lies in Power Systems, High Voltage Engineering, Electrical Measurement & Instrumentation, and Power

Electronics. A prolific researcher, Dr. Singh has published over 36 research papers in international and national journals/conferences and supervised 3 Ph.D. and 29 M.Tech. theses. He is a member of prestigious professional organizations, including IEEE, International Association of Engineers (IAENG), Institution of Engineers (India), and ISTE New Delhi.



# KEYNOTE SPEAKER



**Prof. M. Samim, Director**  
Center of Nanoscience & Nanomedicine, Jamia Hamdard

Dr. M. Samim is the Director of the Center for Nanoscience & Nanomedicine at Jamia Hamdard. With over 20 years of teaching experience and 15 years in research, he has published 101 research papers in prestigious journals, authored 2 books, and contributed to 3 book chapters. His work has garnered 3,122 citations, with an h-index of 29 and an i-10 index of 66. He holds 6 patents and has supervised 31 PhD scholars and 92 M.Sc. students. Prof. Samim has been awarded 6 research projects from organizations such as DBT, DST, OPCW, DRDO, and UGC. He has also received several awards and holds memberships in various professional organizations.



**Prof. Devdutt Chaturvedi**  
Mahatma Gandhi Central University, Bihar

Dr. Devdutt Chaturvedi is working as a Professor & Dean of School of Physical Sciences, Mahatma Gandhi Central University Motihari East Champaran Bihar. He obtained his Ph.D. degree, from the Medicinal Chemistry Division of the Central Drug Research Institute (CSIR), Lucknow, India. Thereafter, He worked as a Postdoctoral Fellow at the University of Georgia, USA & Institute of Organic Chemistry, University of Goettingen, Germany. He has worked on several areas of organic synthesis and medicinal chemistry. He has published more than 100 research publications in reputed international journals and filed 11 patents. His work has further been recognized from the various kinds of awards such as Most

Cited Paper Award (2006-2009) for one of his Tetrahedron Letters publication, Young Scientist Award (2008-2009) from the Govt. of Uttar Pradesh, Highest Impact Factor Award (2009-2010) for publishing a review article in Chemical Society Reviews (IF: 54.56) and DST-Fast Track Young Scientist Award (2010) from the Govt. of India.



**Prof. Guddi Bisht Panwar**  
Hemvati Nandan Bahuguna Garhwal , University

Dr. Guddi Bisht Panwar is a Professor in the Department of Hindi at Hemvati Nandan Bahuguna Garhwal University, with 25 years of teaching experience and 16 years of research experience. A distinguished scholar, she has published 54 research papers in reputed journals, authored 2 books, and contributed 11 book chapters. Dr. Panwar has presented her work at numerous national and international conferences, showcasing her expertise in Hindi literature. Her academic contributions have earned her prestigious awards, reflecting her dedication to advancing research in the field. Dr. Panwar continues to inspire students and scholars through her exemplary work and commitment to higher education.

# KEYNOTE SPEAKER



**Prof. Kuldeep Kumar Saxena**  
Lovely Professional University, Phagwara

Dr. Kuldeep Kumar Saxena is the Deputy Dean and Head of the Research and Development Cell at Lovely Professional University, Phagwara, India. With a vision to lead in publications through fostering a robust research environment and collaborations, he is committed to empowering students and faculty to produce impactful scientific research at international standards. Dr. Saxena completed his PhD from IIT Roorkee in 2018 and has held academic positions at esteemed institutions, including GLA University and Motilal Nehru National Institute of Technology. He has over 329 research publications, an h-index of 46, and international collaborations with renowned institutions across the globe. Honored with awards like the International Travel Support from DST-SERB, he has also served on the editorial boards of several prestigious journals. His current research projects focus on advanced materials, with several funded by government agencies. Dr. Saxena continues to motivate interdisciplinary research and global partnerships.



**Dr. Mohd. Vaseem Akram,**  
Oil and Natural Gas Corporation (ONGC), Vadodara

Dr. Mohd. Vaseem Akram is Senior Geophysicist in Oil and Natural Gas (ONGC), Vadodara. Currently he holds the position of Senior Geophysicist at ONGC Vadodara. He did his Ph.D. in Physics from Jamia Millia Islamia, New Delhi. His diverse interests in black hole physics and gravitational collapse, reflecting a keen curiosity and a multidisciplinary approach to scientific exploration. He has published numerous research papers in reputed journals. He has presented his research work in various International and National Conferences.



# KEYNOTE SPEAKER



**Mr. Harsh Mehrotra**  
Co-founder & CEO Blue Planet Skills Pvt. Ltd., New Delhi

Mr. Harsh Mehrotra is a highly experienced professional with over 16 years of success in managing client relationships in various leadership roles at well-known companies in India. Currently, he plays a pivotal role at Blue Nudge, where he has been instrumental in integrating an ed-tech platform into the Blue Planet action program, aimed at education for sustainable development. Under his leadership, Blue Nudge has emerged as a leader in raising awareness about behaviour change to combat climate change. Harsh spearheaded the Collective Responsibility Drive, inspiring 10 million young people to adopt sustainable practices and collect 1 billion pieces of plastic waste. His initiative was recognized by Niti Aayog's Mission Life as one of the top 75 ideas. Harsh also led Blue Planet to set a Guinness World Record for collecting the most paper waste.

With a focus on actionable solutions, he emphasizes that tackling climate change requires more than social media, advocating for impactful, on-ground initiatives.



**Dr. Mohammad Shahnawaze Ansari**  
King Abdulaziz University, Jeddah, Saudi Arabia

Dr. Mohammad Shahnawaze Ansari is an Assistant Professor at the Center of Nanotechnology, King Abdulaziz University, Jeddah, Saudi Arabia, with over a decade of research experience in nanotechnology. He holds a Ph.D. in Chemical Engineering from Universiti Teknologi Malaysia, specializing in sputtered magnetite thin films for spintronics. Dr. Ansari's research interests include spintronics, electrochemical sensors, and nanocomposites, with over 40 publications in reputable international journals. He has made significant contributions to flexible spintronics and carbon/polymer-based metal-oxide nanocomposites, and he currently leads a project on NiFe<sub>2</sub>O<sub>4</sub> nanostructures funded by the Center of Nanotechnology. Throughout his career, Dr. Ansari has coordinated and co-investigated numerous projects, including those funded by

prominent institutions like King Abdulaziz City for Science and Technology (KACST) and the National Research Foundation of Korea. His expertise also extends to electron microscopy, where he supervises the university's electron microscopy unit. Additionally, Dr. Ansari is a reviewer for prestigious journals such as ACS Applied Energy Materials and Physical Chemistry Chemical Physics. His scientific impact is reflected in his impressive citation count, h-index of 19, and i10-index of 26.



**Dr. S. Chitra**  
Sherubtse College, Royal University of Bhutan

Dr. S. Chitra, an Assistant Professor in English at Sherubtse College, Royal University of Bhutan, boasts over two decades of tertiary teaching experience. She specializes in English Literature, Language, curriculum design, and course development. Her research interests span Culture Studies, Contemporary Literature, Postcolonial Studies, European Literature, and Gender Studies. Dr. Chitra has completed several funded research projects, including a study on English language proficiency at Sherubtse College, and faculty attrition factors. A milestone achievement was her collaboration with St. Joseph's College, Darjeeling, on Bhutanese folklore. Dr. Chitra has directed Shakespeare's Macbeth, securing multiple awards, and actively promotes folk traditions through storytelling

sessions. She is also an IELTS trainer and holds certification from the University of Cambridge. With over 50 research publications, she has co-edited books on ecocentric literature and served as a keynote speaker, resource person, and international doctoral thesis examiner. Dr. Chitra's academic contributions enrich both national and international platforms.

# KEYNOTE SPEAKER



**Dr. Pratima Solanki**  
Jawaharlal Nehru University, New Delhi

Dr. Pratima Solanki is an Assistant Professor at the Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi. Her research interests include biosensors, nano-biointerfaces, nanotoxicity, and water remediation using nanomaterials. She has co-authored over 200 publications in prestigious international and national journals, with 12,460 citations, an h-index of 60, and an i10-index of 195, according to Google Scholar. Dr. Solanki holds sixteen patents and has successfully coordinated several major research grants from BIG, BIRAC, DST, DBT, ICMR, and DHR, India. She has supervised 11 Ph.D. students, with 4 currently under her guidance, and has mentored several graduate students. Dr. Solanki is a member of prominent professional societies, including the Electrochemical Society (since 2021), the American Chemical Society (since 2019), and the Indian Science of Nanomedicine (Founder Member) at AIIMS. Her contributions have been recognized with numerous awards, including one at NEST-2023 in Hyderabad, and the prestigious Visitor Award for Research in Biological Sciences in 2019, presented by the Honourable President of India. Dr. Solanki has presented her research at over 70 conferences and symposia and serves as a guest editor for journals such as IET Nanobiotechnology, ECS Sensor Plus, and the Journal of the Electrochemical Society.



**Dr. Nilesh D. Pawar**  
BITS Pilani, Coa

Dr. Nilesh D. Pawar has been serving as an Assistant Professor in the Department of Mechanical Engineering at BITS Pilani, Goa campus, since July 2020. He earned his Ph.D. from IIT Delhi and his M.Tech. from IIT Kharagpur. Prior to joining BITS Pilani, he was an Assistant Professor at Walchand College of Engineering, Sangli, from June 2019 to April 2020. Dr. Pawar's research focuses on droplet growth dynamics during condensation, droplet coalescence, multiphase flow and lattice Boltzmann simulations. He has successfully led several sponsored projects, including a SERB-funded project on microchannel diagnostics and two BITS Pilani-funded numerical investigations on particle manipulation and droplet nucleation. His work has contributed significantly to advancing knowledge in fluid dynamics and microfluidic technologies. He has published his research paper in a reputed journal.



**Dr. Raj Bahadur Singh**  
National Institute of Technology, Hamirpur

Dr. Raj Bahadur Singh is an Assistant Professor in the Department of Material Science and Engineering at the National Institute of Technology (NIT), Hamirpur, India. He holds a Ph.D. in Metallurgical Engineering from IIT (BHU) Varanasi, where he developed expertise in bulk ultrafine-grained low carbon steel. Dr. Singh has been recognized for his work through various fellowships, awards, and invited talks. He has published extensively in high-impact journals, particularly focusing on materials science and metallurgical engineering. His key research interests include severe plastic deformation, tribology, and the development of advanced materials. Dr. Singh is also a member of multiple prestigious technical institutions such as the Indian Institute of Metals and the Electron Microscopy Society of India. Besides teaching, he plays an active role in organizing national and international conferences, as well as conducting

# KEYNOTE SPEAKER



**Dr. Kumari Sunita**  
Deen Dayal Upadhyay Gorakhpur University

Dr. Kumari Sunita, an Assistant Professor in Botany at Deen Dayal Upadhyay Gorakhpur University. She is an accomplished educator and researcher with over 12 years of teaching experience at both undergraduate and postgraduate levels. She has made significant contributions to plant physiology and plant pathology, with a strong focus on plant growth-promoting rhizobacteria, environmental remediation, and agricultural plant science. Her research interests also encompass ethnobotany, stress physiology, and biological nitrogen fixation in underutilized legumes.

She has received 18 prestigious awards, including recognition for her outstanding contributions to teaching and research in higher education. She is actively involved in cutting-edge research, including projects funded by the Council of Science and Technology, UP, focusing on biofortification of golden sweet potatoes. With 34 published research papers and five books, she is a prominent figure in her field and frequently invited to deliver lectures. Her expertise also extends to industrial production of plant-based biopesticides and biofertilizers.



**Dr. Sumit Tiwari**  
Shiv Nadar University , Greater Noida

Dr. Sumit Tiwari works with Shiv Nadar Institution of Eminence, Gautam Budha Nagar, Uttar Pradesh. He received his M.Tech and Ph.D. degrees from the Indian Institute of Technology (IIT) Delhi. He worked with Professor Patrick Phelan's Group at Arizona State University, USA as a research fellow for 06 months under the fellowship named "Building Energy Efficiency Higher & Advanced Network (BHAVAN) Fellowship Program," which is a program executed by Indo-U.S. Science and Technology Forum (IUSSTF) and department of science and technology (DST). He got Shrimati Vijay-Usha Sodha Research Award for the session 2018-19 given by the Center for Energy Studies, IIT Delhi. He is working on

different solar thermal technologies, namely, photovoltaic thermal (PVT) greenhouse drying system, PVT greenhouse heating system, PVT greenhouse biogas heating system, solar still, PVT air collector, passive cooling of the building, and solar adsorption cooling system, etc. He has published several SCI journal papers with high-impact factors, international conference papers, book and book chapters in his field. He has also been featured consecutively last three years among the Top 2% of scientists worldwide working in the energy field as per a list jointly prepared by Elsevier and Stanford USA.

# INVITED SPEAKER



**Prof. Virendra Singh Chaudhary**  
Principal  
Smt. Vidyawati College of Nursing,  
Jhansi, Uttar Pradesh



**Dr. Praveen Kumar**  
Professor  
University of Medical Sciences,  
Safai, Uttar Pradesh



**Dr. Kartikeya Tiwari**  
Professor  
Al-Karim University, Katihar, Bihar

# INVITED SPEAKER



**Dr. Ajit Kumar Sharma**  
Associate Professor  
Lovely Professional University,  
Punjab, India



**Dr. Waseem Ahmad**  
Associate Professor  
Graphic Era (Deemed to be University)  
Dehradun



**Dr. Kuldeep Baudh**  
Associate Professor  
Institute of Environment and Sustainable  
Development Banaras Hindu University, Varanasi



**Dr. Pankaj Kumar Tripathi**  
Assistant Professor  
Sharda University, Greater Noida, India



**Dr. Ajeet Kumar Maurya**  
Assistant Professor  
Babasaheb Bhimrao Ambedkar  
University Lucknow



**Dr. Gargi Sharma**  
Assistant Professor  
Manipal University Jaipur, Rajasthan



**Dr. Dayal Sandhu**  
Assistant Professor  
Jamia Millia Islamia, New Delhi



**Dr. Rohit Tripathi**  
Assistant Professor,  
J.C. Bose University of Science and  
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**Dr. Sunil Kumar**  
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IIIT, Bhopal



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Assistant Professor  
Veer Bahadur Singh Purvanchal  
University, Jaunpur



**Dr. Vandana Nagpal**  
Postdoctoral fellow,  
Institute of Eminence (IoE)  
IISc, Bangalore



**Dr. Aditya Raj**  
Nehru-Fulbright FLTA Scholar  
Wesleyan University, CT, U.S.A

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