



# J.S. UNIVERSITY

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



We are the  
**FUTURE**

## INTERNATIONAL MULTIDISCIPLINARY CONFERENCE on RECENT INNOVATIONS IN SCIENCE, ENGINEERING, MANAGEMENT AND HUMANITIES

16-17<sup>TH</sup> DECEMBER - 2023

**RISEMH - 2023**





## 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 produces 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 to face 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

## **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 nearly 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.



## **Mr. Himanshu Yadav - Managing Director**

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.

## **Mr. 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. Banshi Prasad 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



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KOREA ADVANCED INSTITUTE OF SCIENCE &  
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GUJARAT



# CONFERENCE OVERVIEW

Multidisciplinary and Transdisciplinary research is playing a vital role in development of robust knowledge banks in the educational sector and new advancement in various research fields across the globe. International Multidisciplinary Conference on Recent Innovations in Science, Engineering, Management and Humanities (RISEMH -2023) is focused on development of latest innovations and technologies in Applied Sciences, Engineering, Agriculture, Management, Humanities and application of other supporting branches to meet the requirements of society and scientific community.

This conference is aimed to disseminate the new inventions, recent trends, novel findings and their applications in the real world to serve the society by meeting the social challenges and needs. This conference will provide the platform to experts of their respective field and budding researchers to share their experience and findings which will explore futuristic interdisciplinary research areas. This event will provide the chance to spur the interchange of knowledge and ideas in the field of Science, Engineering and Humanities. JS University, Shikohabad had organized an International Multidisciplinary Conference on Recent Innovations in Science, Engineering, Management and Humanities (RISEMH - 2022) with remarkable success and now in continuation we are organizing another International Multidisciplinary Conference by providing the platform with the help of legendary Scientists, Engineers and Educators. We warmly invite you all to be a part of this International Conference (RISEMH -2023).



# ORGANIZING COMMITTEE

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

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- Dr. Manisha Singh, HOD, Dept. of Sanskrit
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- Dr. Shailendra Singh, HOD, Dept of Sociology
- Dr. Bharti Yadav, HOD, Dept of Home Science
- Dr. Hradayesh Kumar, HOD, Dept of History
- Dr. Anjali Rao, HOD, Dept of Drawing & Painting
- Miss Saniya Rathour, HOD, Dept of Psychology



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- Dr Ariane Macalinga Borlongan, Tokyo University of Foreign Studies, Japan
- Dr. Abdul 'Dewale Mohammed, Founder of the Africa Asia Scholars Global Network
- Dr. Veronika Yarnykh, Russian State University for Humanities, Moscow
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- Dr. Vandana Nagal, Indian Institute of Technology, Delhi
- Dr. Zubair M.S.H. Khan, Jamia Millia Islamia University, New Delhi
- Dr. Aga Shahee, Islamic University of Science and Technology, Kashmir
- Dr. Pankaj Kumar Tripathi, Sharda University, Noida
- Dr. Praveen Kumar, University of Medical Sciences, Safai
- Dr. Prasad Babu Jayanthi, Management J S University, Shikohabad

# 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 and 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 TECHNOLOGY

- Mechanical Engineering
- Renewable Energy Production
- IOT, Cyber security, Cluster and Cloud Computing
- Construction and Civil Engineering
- Smart Grid
- Industrial Management

## AGRICULTURE

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

## BIOSCIENCES AND HEALTHCARE

- Bioinformatics
- Biotechnology
- Ecology
- Biodiversity
- Genetic Disorder
- Healthcare Techniques
- Hospital Management
- Natural Remedy and Natural Conservation
- Taxonomic Zoology

## MANAGEMENT

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

## HUMANITIES

- Linguistic and Literature
- Yoga For Health
- Ocean biomes
- Applied Psychology for Education
- Emerging Technologies and Trends in Educational System
- Increasing Nature of Hindi at Global Level
- Increasing Influence of Hindi in Science and Technical Subjects Area
- Impact of Hindi Media in the Context of World

## PHARMACEUTICAL SCIENCES

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

## SESSION CHAIR



**Dr Deepak Jain,**

Dr Deepak Jain, 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

# KEYNOTE SPEAKER



**Dr Ariane Macalinga Borlongan,**  
Tokyo University of Foreign Studies, Japan

Dr Ariane Macalinga Borlongan is a linguist who specializes in English language variation, change, and standardization. He also investigates the linguistic aspects of human mobility, leading to his development of a framework for migration linguistics. He earned his Ph.D. in Applied Linguistics from De La Salle University in Manila, Philippines. He has held positions at various universities around the world, including De La Salle University, The University of Tokyo, Nanyang Technological University, and others. In 2019, he was awarded The Br. Andrew Gonzalez FSC Distinguished Professorial Chair in Linguistics and Language Education.

Borlongan edited 'Philippine English: Development, Structure, and Sociology of English in the Philippines', published by Routledge in 2023. He is also the Director of the Philippine component of the International Corpus of English (ICE-PH) and has compiled several corpora. He is the Founding President of the International Association for Migration Linguistics (IAML) and Convener of the Research Network for Migration Linguistics in the International Association of Applied Linguistics (AILA). He also writes a weekly column for 'The Manila Times'. Currently, he is an Associate Professor of Sociolinguistics and the Founder and Head of the Migration Linguistics Unit at the Tokyo University of Foreign Studies. His work has received support from various organizations worldwide, including the European Commission and the Japan Society for the Promotion of Science.



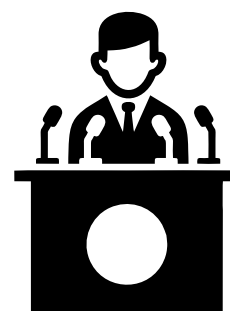
**Dr. Abdul 'Dewale Mohammed,**  
Founder of the Africa Asia Scholars  
Global Network

Dr. Abdul 'Dewale Mohammed, a global strategic management consultant, prolific entrepreneur, and renowned public speaker, is the founder of the Africa Asia Scholars Global Network and the Global South Economic Forum. He's also the founder of the Africa Arab Asia Pacific University Presidents and the Pride of Africa Arab Asia Pacific University Leadership Global Awards. A signatory to the United Nations Global Compact, he's an affiliate member of the International Association of Universities and a member of the UK Stakeholders for Sustainable Development. He's also a consultant to the World Energy Forum and the founder of the Sino-African Diaspora Forum and Awards. As an international consultant at Exquisite Solutions and advisor at BMC Advisors in India. He is a promoter of the Kofi Annan University for Human Development and a senior advisor to IARS International Research Journal. A youth and children's rights advocate, he has established several organizations for child welfare and has raised over £20m for charity causes.



**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 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.



# KEYNOTE SPEAKER



**Prof. Debi Prasad Mishra,**  
Director of NITTTR Kolkata.

He is a professor in the Department of Aerospace Engineering and Design Programme, Indian Institute of Technology Kanpur (IITK) and an adjunct Professor in Centre for Indian Knowledge System, IIT, Guwahati is currently working as the Director of NITTTR Kolkata. Currently he is also working as the chairman, BoG, Govt. College of Engineering, Kalahandi. His areas of interests are Propulsion, Combustion, Computational Fluid Dynamics and Atomization. He held Indian Oil Golden Jubilee Professional Chair in IIT Kanpur. He has been conferred with several awards and recognitions. He has authored 5 textbooks and 9 edited books in the field of combustion and propulsion.

He has published more than 260 research papers in International/National Journals and conferences. He also has five patents to his credit. He has undertaken more than 32 research and consultancy projects from various agencies, research labs and industries. He has developed 6 online courses under Swayam Platform, a national initiative of Govt. of India. Besides this, he has designed and developed a unique MOOC course, "Introduction to Ancient Indian Technology" on Swayam platform of NPTEL.



**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. Sudeep Tanwar,**  
Nirma University, Ahmedabad, Gujarat

He is working as a Professor in the Computer Science and Engineering Department. He has received a PhD degree in Computer Science and Engineering from Mewar University, India.

His research interests include Blockchain Technology, Wireless Sensor Networks, Fog Computing, Smart Grid, and IoT. He has authored several books and more than 300 technical papers, including top journals and top conferences, such as IEEE TNSE, TVT, TII, WCM, Networks, ICC, GLOBECOM, and INFOCOM. He has guided many students leading to ME/MTech and guiding students leading to PhD. He has been awarded the Outstanding Reviewer Award from FGCS, CEE, JNCA, DCN, Elsevier. He has initiated the research field of blockchain technology adoption in various verticals in 2017. His h-index is 62. He has been awarded the best research paper awards from IEEE SCIoT 2022, IEEE ECAI 2021, IEEE ICCA 2021, IEEE GLOBECOM 2018, IEEE ICC 2019, and Springer ICRIIC-2019. He has served many international conferences as a member of the organizing committee, such as publication chair for FTNCT-2020, ICCIC 2020, WiMob2019, member of the advisory board for ICACCT-2021, ICACI 2020, workshop co-chair for CIS 2021, and general chair for IC4S 2019, 2020, ICCSDF 2020.



# KEYNOTE SPEAKER



She has a distinguished academic career, having earned her Ph.D. from Swami Ramanand Teerth Marathwada University, Maharashtra. She has a rich teaching experience, having served as an Assistant Professor at the Department of Geography, Indira Gandhi Sr. College, Maharashtra from November 07, 2006, to March 10, 2014. She then moved to St. John's College, Agra, where she served as an Assistant Professor in the Department of Geography from March 12, 2014, to December 01, 2019. She then joined Mizoram University as an Associate Professor in the Department of Geography and Resource Management, where she served from December 02, 2019, to December 01, 2022.

Her areas of interest include Regional Planning, Climatology, Oceanography, Social Geography, Natural Resource Management, Environmental Studies, and RS & GIS. She has also authored a book on Physical Geography.



**Prof. Brototi Biswas,**  
Mizoram University, Aizawl, India

Dr. Ajit Kumar Sharma working as Associate Professor and Research Coordinator in the Department of Chemistry, School of Chemical Engineering and Physical Science, Lovely Professional University, Phagwara, Punjab, India. He has more than thirteen years of experience in developing nanocomposites, catalytic filters and advanced materials for energy and environmental applications. He has filed 10 International patents and was also awarded for his outstanding research contribution in the year 2020-21 at LPU University. He has also received the National Research Foundation (NRF) Postdoctoral Award from the Ministry of South Korea 2013. He has been invited by various Asian and European countries for invited and keynote talks and has more than 85 international publications and several book chapters.



**Prof. Ajit Kumar Sharma,**  
Lovely Professional University, Phagwara,  
Punjab

He has done Ph.D. in Physics from Jamia Millia Islamia New Delhi. After completing PhD he joined as a postdoctoral fellow in Academia Sinica Taiwan (2020-2021) and ZJUT China (2021-2022). Presently he is working as Postdoctoral fellow in the department of Physics HongKong University of Science and Technology HK. His research interests involve Multiferroics, Complex Magnetism, Ferroelectric. Single Crystal Growth. Topological Materials. Superconductivity. He has published several research papers in reputed journals.



**Dr Tahir Murtaza**  
HongKong University of Science and  
Technology, HongKong



# KEYNOTE SPEAKER

He is a distinguished academic with a Ph.D. Degree from Indian Institute of Geomagnetism (IIG), Navi Mumbai. He currently holds the position of Assistant Professor in the Department of Physics at Babasaheb Bhimrao Ambedkar University, Lucknow. He is a recipient of the prestigious Fulbright Nehru Postdoctoral Fellowship and the Ramanujan Fellowship. His scholarly contributions include numerous book chapters and research papers published in renowned journals.

His excellence in research has been recognized with the Young Scientist Award and the Sunanda and Santimay Basu (International) Early Career Award. He is an active member of several professional organizations including the Indian Radio Science Society (InRaSS), International Union of Radio Sciences (URSI), Committee on Space Research (COSPAR), The Plasma Science Society of India, The American Geophysical Union, and The Society for Science of Climate Change and Sustainable Environment, New Delhi.



**Dr. Ajeet Kumar Maurya,**  
Babasaheb Bhimrao Ambedkar University,  
Lucknow

Dr. Zubair M.S.H. Khan is serving as an Assistant Professor in the Department of Biosciences at Jamia Millia Islamia, New Delhi. His academic journey is marked by a deep commitment to the field of Physics. He completed his Ph.D. on the topic of "Synthesis and Characterization of semiconductor quantum dots and their applications" at Jamia Millia Islamia, a Central University in New Delhi, India, from 2014 to 2020.

His professional journey includes a stint as a guest faculty member in the Department of Applied Sciences at Jamia Millia Islamia, New Delhi, India, from December 2021 to June 2022. He then served as an Assistant Professor of Physics (Contractual) at the Department of Physics at Jamia Millia Islamia, New Delhi, India, from November 2022 to April 12, 2023.



**Dr. Zubair M.S.H. Khan,**  
Jamia Millia Islamia University,  
New Delhi

# INVITED SPEAKER



**Prusela Bhowmick,**  
Business Development and Partnerships,  
Nordek Based in Dubai, UAE



**Dr. Narendra Chinthamu,**  
MIT Certified CTO & Senior Enterprise Architect  
Chief Editor, Coppell, TX, USA.



**Dr. Khurshid Ahmad Parrey,**  
Kahramanmaraş Sütçü İmam University Turkey



**Dr. Musa Garba Usman,**  
Research Associate at Bayero University,  
Kano, Nigeria



**Dr. Sarvar Hussain,**  
Korea Advanced Institute of Science & Technology  
(KAIST), South Korea



**Dr. MorPal Vikram Rathore,**  
National Taiwan University (NTU), Taiwan.



**Dr. Vandana Nagal,**  
Scientist D, Indian Institute of Technology, Delhi



**Dr. Moh. Vaseem Akram,**  
Senior Geophysicist, Oil and  
Natural Gas Corporation (ONGC).  
Vadodara.



**Dr. Rishi Raj,**  
Indian Agriculture Research Institute, New Delhi.



**Dr. Aga Shahee,**  
Islamic University of Science and Technology,  
Kashmir



**Dr. Praveen Kumar,**  
University of Medical Sciences, Safai



**Dr. Pankaj Kumar Tripathi,**  
Sharda University, Noida



**Prof. Laxmi Tripathi,**  
Principal, Agra Public Pharmacy College,  
Agra



**Bob Gardner,**  
Assistant Professor St. John's College, Agra

# REGISTRATION DETAILS

## REGISTRATION FEE

A	Faculty/Staff from academia	INR 1500
B	Research Scholar/ Students	INR 1000
C	Delegates from industry	INR 2500
D	International delegates	USD 100

### Registration Fee Entitles the Delegates to:

- Attend the conference sessions online/offline mode
- Receive the conference proceedings
- Participation and presentation certificates

Registration Bank Details: NEFT/RTGS/NET Banking/Cash Deposit

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**Note:** The Registration charges are not refundable

Last date for submission of abstract -	30 <sup>th</sup> November
Notification for acceptance of abstract -	03 <sup>rd</sup> December
Full paper submission -	05 <sup>th</sup> December
Early bird registration-	05 <sup>th</sup> December
Last date for registration -	10 <sup>th</sup> December

At least one author of each accepted abstract must register for the conference for the abstract to appear in the proceedings and be scheduled for oral presentation.

Selected articles will be published in Scopus/WoS indexed journal/proceeding with ISBN number and additional nominal charges will be applicable for the publication. Submitted articles will be peer-reviewed and screened for plagiarism before final acceptance.



# ORGANIZED BY



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**Dr. Ankit Singh Yadav**  
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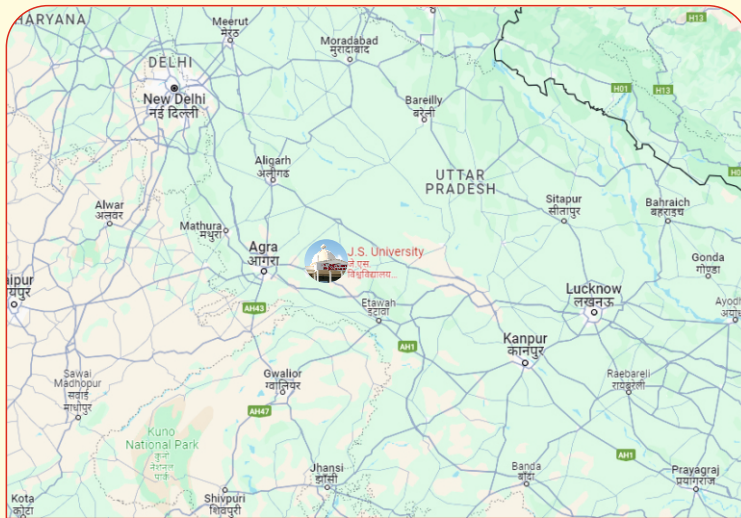
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**Dr. Imran Ahmad Salmani**  
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