



J.S. UNIVERSITY

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

International Conference on Multidisciplinary Research and Innovative Practices (ICMRIP-2021)

26th-27th November 2021

ORGANIZED BY

J. S. University, Shikohabad

Mainpuri Road, Shikohabad Distt. Firozabad (U.P)

IN ASSOCIATION WITH



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Editors

Dr. Gaurav Yadav,

**Professor, Department of Mechanical Engineering,
J.S. University, Shikohabad**

**Dr. Geeta Yadav
Associate Professor
AK Degree College, Shikohabad**

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Preface

Conference World and AR Research Publication is fast growing group of Academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. ConferenceWorld has organized a various Conference at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi, Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, DhananjayMahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the Proceedings of the International Conference on Multidisciplinary Research and Innovative Practices (ICMRIP-2021). The level of interest in the subject matter of the Conference was maintained and over 203 suitable papers were submitted for presentation at the Conference.

Papers were well represented in the Conference to arouse a high level of international interest. In the event, the Conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts. The number of delegates were also highly gratifying, showing the utmost interest in the Subject. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we extend our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from vast areas. We are also indebted to those who served as department coordinators, without their support, the Conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no Conference. Their efforts made a great contribution to its success.

ABOUT CONFERENCE

ICMRIP-2021 intends to provide common platform to the Researchers, Academicians, Practitioners, Engineers, Research Scholars, PG and UG Students in frontline evolutionary and challenging fields. It is expected to share their knowledge and Research expertise to advance in the areas of Emerging Scientific Applications in Engineering and Technology, as well as to create a prospective collaboration and networking on various allied ventures.

ABOUT THE COLLEGE

J.S. University, Shikohabad (U.P.) has established under Uttar Pradesh act no.7 of 2015 and recognized by University Grants Commission (India) under section 12(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 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 exists to create transformative experiences for our students, getting them ready for life and work, and to help shape the world with research, innovation, teaching and engagement. University offers and education deeply grounded in ideas and cross-disciplinary understanding, applied through innovative, enterprising practice to solving problems and meeting the needs of our community.

8 Schools, 90 Undergraduate Postgraduate and Doctoral Programs School of Engineering, School of Law, School of Management, School of science, School of education, School of pharmacy, School of Agriculture, School of nursing & paramedical Sciences.

VISION

To be one of the leading international education providers and a research-led university of its own kind. Creating and disseminating knowledge, and providing students a unique learning experience in Science, Technology, Management and other areas of scholarship that will best serve the world and betterment of mankind.

Our ability to enhance the well-being of the people by Educating and Serving the Society by putting the knowledge to work with excellence. To advance the professional competence of youth and inculcate in them the urge to recognize challenges as opportunities

MESSAGE FROM CHANCELLOR'S DESK



First and foremost, I want to thank all 3rd International Conference on Multidisciplinary Research & Innovative Practices (ICMRIP 2021) organisers for inviting me to address and officiate this conference. This 3rd ICMRIP 2021 provided a platform to bring together not only researchers, postgraduate students but also industrial people. With this platform, ICMRIP embarked whole process of making new discoveries and then translating them into products and services for the marketplace is only made possible with people like all of you. I would like to congratulate ICMRIP 2021 organisers for the achievement of collecting numerous papers for this conference. Submission received from local universities, industrial companies and different countries is a great achievement for JSU. JSU's main challenge is to remain competitive and relevant by offering high quality technical academic programmes and research activities, focusing on its niche areas. New knowledge and findings cannot be generated without any research and development (R&D) activities. These efforts will undoubtedly generate lots of interesting results and new knowledge either bring further commercialisation activities. On behalf of JSU, I would like to express my appreciation to all committee members of ICMRIP 2021 for their hard work and relentless effort. Without their commitment and contributions, this event would not have been possible and successfully delivered right this time.

Dr. SUKESH KUMAR

Chancellor

JSU, Shikohabad

MESSAGE FROM PRO CHANCELLOR'S DESK



I am extremely delighted to note that JSU has organized third International Conference on multidisciplinary research & innovative practices (ICMRIP 2021) and is also bringing out a “conference proceedings” to highlight the recent research outcomes in the related field. It is with much delight that I pen down a few words for the conference proceedings which is a tremendous effort of ICMRIP team, JSU. This third International conference on Multidisciplinary research & innovative practices(ICMRIP-2021) is organized keeping in mind the latest innovations and developments and It has provided participants with minute details much relevant for present day survival. Our conference served as a global platform for various forms of knowledge sharing irrespective of differences in time and geography. I convey my warm greetings and felicitations to the team for their laudable effort and the participants and extend my best wishes for the success of the conference. Hope this mission will be carried out with even more dynamism in the years ahead.

Dr. P. S. YADAV

Pro Chancellor

JSU, Shikohabad

MESSAGE FROM VICE CHANCELLOR'S DESK



It is quite gratifying to note that the JSU hosted its third International Conference on multidisciplinary research & innovative practices (ICMRIP 2021), in association with conference world on 26th and 27th November 2021. Organizing such an event at this point of time reinforces our objective of developing an environment for the exchange of ideas towards technological developments. This conference enabled to deliberate on current issues of national and international relevance, particularly in the field of cloud computing, data mining, global warming & climate change, business practices, healthcare techniques, new education policy etc. There have been unprecedented numbers of quality papers that are presented in the conference. This conference has provided an affable environment for the researchers and academicians to freely exchange the views and ideas with others. I convey my warm greetings and felicitations to the organizing committee and the participants and extend my best wishes for the success of the conference.

Dr. HARIMOHAN SHARMA

Hon. Vice Chancellor

JSU, Shikohabad

MESSAGE FROM VICE CHAIRPERSON'S DESK



It gives me immense pleasure that J. S. University has organized an International Conference on Multidisciplinary Research & Innovative Practices (ICMRIP-2021). ICMRIP provided an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in the various research and development fields of Engineering, Technology, healthcare, education etc.. The conference offered a premise for global experts to gather and interact intensively on the topics of Electrical and Electronics, Electronics and Communication, Computer Science and Information Technology, business practices, social issues etc. I am privileged to say that this conference has offered suitable solutions to the global issues. The success of this Conference is solely on the dedication and efforts of innumerable people who started working on the preparations for almost a year in many ways to make this Conference become a reality. Eventually I express my special thanks and appreciation to all. I wish ICMRIP 2021 all the best for its success.

Dr. GEETA YADAV

Vice Chairperson

JSU, Shikohabad

MESSAGE FROM DIRECTOR GENERAL'S DESK



The conference titled International conference on Multidisciplinary Research & Innovative Practices (ICMRIP-2021) provided a platform for discussions on various technical topics related to engineering as well as science and technology. This was a conference of international significance. The proceedings represent scholarly work of advanced and innovative thinkers and educators from around the world. It is felt that it is only through the exchange of information that one can hope to keep up with the rapidly changing world around us. I wish all the delegates, a great educational and informative experience at the conference. My best wishes to the organizers of the conference.

The idea behind this conference was to help and motivate researchers to carry forward their work to the next level. As Editor of ICMRIP 2021, I anticipate that these proceedings would be of immense value and will be definitely useful to researchers in their practice or thinking process. This collection will also offer a window for new perspectives and directions in the respective horizons.

Dr. GAURAV YADAV

Director General

JSU, Shikohabad

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Director, Rajkiya Engineering College, Mainpuri

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KEYNOTE SPEAKERS

Prof. (Dr.) Maya Khemlani David (Ph.D), University of Malaya, Malaysia

Professor Maya Khemlani David is a former member of the Faculty of Languages and Linguistics, University of Malaya, she served as the Head of the Section Co-Circular, University of Malaya (SKET) from 2006 to 2013 and has been and is a consultant and advisor to several institutions of higher education in Malaysia, Pakistan & UK. Maya David is a Honorary fellow of Foundation Endangered Languages (FEL), Chartered Institute of Linguists (UK) and Linguapax winner 2007 for her work on language maintenance and shift. Her intellectual interests centre on Discourage Analysis, Critical Discourse Analysis, Legal Discourse and Language and Human Rights. She is the author of 28 books and her publications include works in the fields of Sociolinguistics and Socio culture issues. Publishers of her books include Peter Lang, University of Amsterdam Press, University of Malaya Press, University Putra Press, University Pendidikan Sultan Idris, Strategic Institute of research and Development Malaysia, the Association of Southeast Asian Nations (ASEAN), University of Publication Centre (UPENA) and Federal Publications SendrianBerhad.

Dr. Francisco P. Dumanig (Ph.D), University of Hawai'i at Hillo, USA

Dr. Francisco P. Dumanig is an Assistant Professor of English and TESOL coordinator at the University at Hilo. He was a Senior Lecturer at the Faculty of Languages and Linguistics, University of Malaya, Kuala Lumpur, Malaysia and other universities in the Philippines, Malaysia, Middle East and the USA. He has done research on language and Identity of Economics Migrants, English Language Teaching and Learning (ENL, ESL & EFL) Language Planning and language Policy of Filipinos in Hawaii, Education and Language in the Philippines and Caregiver's Interaction with Elderly Patients in Adult Residential Care Homes. He has published some of his works in Multi peer-reviewed journals, such as Cambridge Language Teaching Journal, Journal of Multilingual and Multicultural Development, World Englishes, Multilingual, Language Policy and International Journal of Bilingual Education and Bilingualism.

INVITED SPEAKERS:

Dr. Shaista Sami, Assistant Professor , DU

TOPIC: FINANCIAL INCLUSION IN INDIA

Dr. Neha Jain, Professor, Presidency University, Bangalore

TOPIC: TECHNOLOGY BASED INNOVATIVE TEACHING PRACTICES-THE FUTURE IS HERE

Dr. Deepak Jain, Managing Editor, IARS Press

TOPIC: RESEARCH ETHICS IN MODERN ERA

Dr. Prakash Singh, Rajkiya Engineering College, Mainpuri

TOPIC: Application of Information Technology in Multidisciplinary Research Areas

SESSION CHAIR:

TECHNICAL SESSION-1: Dr. Deepak Jain, Managing Editor, IARS Press

TECHNICAL SESSION-2:Dr.Neha Jain, Professor, Presidency University, Bangalore

TECHNICAL SESSION-3: Dr. Shaista Sami , Assistant Professor , DU

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International Conference on Multidisciplinary Research and Innovative Practices (ICMRIP-2021) organized by JS University, Shikohabad on 26th-27th November 2021. Total 311 papers were received for the Conference and 203 papers were shortlisted by the committee. The Conference was took place in both the mode online (Googlemeet platform) offline. 5 tracks were run in parallel in two sessions during these two days.

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Managing Director: Gauri Sharma

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