

# INTERNATIONAL CONFERENCE ON INNOVATION AND ADVANCES IN INTERDISCIPLINARY RESEARCH [ICIAIR-2022]

**Organised by**



**Mewar University**

(UGC 12 (B) and NAAC Accredited University)  
NH - 48 Gangrar, Chittorgarh, Rajasthan-312901

**Date of Conference:  
28th and 29th November, 2022**

**In association with**



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# INTERNATIONAL CONFERENCE ON INNOVATION AND ADVANCES IN INTERDISCIPLINARY RESEARCH

[ICIAIR-2022]

## **Editors**

Dr. Gulzar Ahmed  
Dr. A. K Sharma  
Mr. Nura Yakubu  
Mr. Lone Faisal  
Mr. Nuhu Bobby Ezekiel

## **Rapporteur's**

Dr. Sumit Kumar Pandey  
Dr. Neelu Jain

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***Publish By:***  
*A.R. Research Publication*

## *Preface*

IARDO and AR Research Publication is fast growing group of academicians in Engineering, Social Sciences, Management, Allied Health sciences, Pharmaceutical science and Agricultural science, . AR Research Publication is also known for fast reply and zero error work. Conference world has organized various conferences 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, Dhananjay Mahadik 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 Innovation and Advances in Interdisciplinary Research [ICIAIR-2022]. As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 75 suitable papers were submitted for presentation at the conference.

Papers were well presented in the conference to arouse a high level of international interest. Four countries were represented in the final program from Europe, North America, Africa and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, represented by 2 delegates each. 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 record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been successful. 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 University**

Mewar University is an autonomous body set up by the Government of Rajasthan through Act. No. 4 of 2009 passed by the Rajasthan Legislative Assembly (Government of Rajasthan). The University is recognized by the UGC u/s 2(f) of UGC Act with powers to confer degrees u/s 22(1) of the UGC Act, 1956 vide their letter no. F.9-15/2009(CPP-I) dated 30th March, 2009. This is the only private and self- financed University in Rajasthan which is also approved by the UGC u/s 12B of the UGC Act vide their letter No. F.9-15/2009 (CPP-I/PU) dated 15th October, 2018. The University is member of AIU (Association of Indian Universities) and NAAC Accredited. The University is also approved by AICTE, PCI, BCI, IAP, NCC, NSS and NCTE for respective courses.

## **ABOUT IARDO:**

International Association of Research and Developed Organization (IARDO) is a leading organization in the field of academic research activities under the banner of India Educational Charitable Trust (Regd).

International Association of Research and Developed Organization (IARDO) is an apex body that promotes and encourages commendable achievements from all over the country. The organization under conference world regularly organizes national and International level conferences with the help of its members to promote socially responsible education practices and sustainable development in economic as well social front in India.

In past, we have organized international conferences in different universities and colleges of the country like JNU New Delhi, University of Delhi, Punjab University, Pune University and many other renowned organizations in India.

## **Aim & Objective of the Conference**

International conference on Innovation and Advances in Interdisciplinary Research [MEWAR-2K22] is a global event organized by Mewar University in collaboration with Conference World. This conference aims to bring together professionals, experts and researchers in the field of sciences, Law, Engineering, Health sciences, Management, Agriculture, Social science & Humanity and other related interdisciplinary fields in India and abroad, to discuss and exchange most recent research findings and scientific outputs in their respective domains.

## **MESSAGE BY CHIEF PATRON**



It is a matter of great pride for the Mewar University for organizing a two days International Conference on Innovation and Advances in Interdisciplinary Research.

I extend my heartiest congratulation to the Organizing Team. Conference is the best platform for the young scientists and students where they put forward their research work. The conference greatly encourages graduate and Postgraduate students, research scholars and faculty members to present innovative ideas and latest discoveries in their respective fields. Researchers participating in the International Conference will definitely be benefitted by various invited keynote speakers, expert talks on recent interdisciplinary topics around the globe. I expect that this conference will create awareness innovative ideas in various distinguished areas.

I express my best wishes for the success of the conference and publication of the proceedings.

With best wishes.

**Dr. Ashok Kumar  
Gadiya Chairperson  
Mewar University**

## **MESSAGE BY PATRON**



The International Conference on Innovation and Advances in Interdisciplinary Research organized at Mewar University is an excellent opportunity to discuss the relevant areas and provide an excellent opportunity for meeting of International Researchers, Engineers, Scientists and specialists in the various research and development fields. This conference enabled to deliberate on current issues of national and international relevance. It has provided an affable environment for the researchers and academicians to freely exchange the views and ideas with others. The conference is organized keeping in mind the latest innovations and developments in interdisciplinary areas.

I would like to congratulate the organizers for the achievement of a good number of research papers for this conference. 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. Alok Misra**  
**Vice Chancellor**  
**Mewar University**

## **MESSAGE BY CONVENER**



I extend my gratitude to almighty God for making this conference successful; the success would not have been achieved without the support of school management, especially the school registrar, Mrs. Deepti Shastri mam, the organizing committee, and the conference world respectively. Also not to forget MS. Reshu Gupta Mam, for her immense contribution in this journey success. The conference theme "International Conference on Innovation and Advances in Interdisciplinary Research" was the best ever chosen because it provides an opportunity for everyone to participate in all fields of knowledge without bias. The 28th and 29th of November, 2022, were history-making days that will never be forgotten for me as a convener, the participants, including the invited speakers, and Mewar University. Such a task will be memorable forever. I am the happiest person on earth to have seen such a gathering of professors, researchers, scientists, and scholars from different parts of the world sharing their pots of knowledge. This is actually amazing. Looking at the number of students who participated, it was actually impressive, and it shows that it would have been best if such an international conference were organized yearly at this university.

I would like to thank everyone who was invited, both in person and online, for participating in the conference.

**Mr. Nura Yakubu**  
**Associate Lecturer**  
**Mewar University**

## **MESSAGE BY ORGANIZING SECRETARY 1**



It gives me utmost pleasure to welcome you all to International Conference on Innovation and Advances in Interdisciplinary Research [ICIAIR-2022] being held at the historic city Chittorgarh, Rajasthan. The theme of the Conference was the link between the information provided by conference world and the use made of this information in assessing structural integrity. The Conference aims to focus on the current status and future prospectus of research in Interdisciplinary areas.

I would like to thank H'ble Chairperson Dr. Ashok Kumar Gadiya for providing us all the necessary facilities to organize this International Conference. I would also like to thanks our H'ble Vice Chancellor Dr. Alok Misra for their encouragement and support. I extend my heartfelt wishes to all the participants who have contributed in making this conference a great success.

I express my sincere thanks to all well-wishers for their valuable guidance and unstinted support, who have been directly or indirectly involved in organizing this conference.

**Dr. Gulzar Ahmed**  
**HOD Dept. of Physics**  
**Mewar University**



## **MESSAGE BY ORGANIZING SECRETARY 2**



I truly appreciate the presence and rich contributions of our keynote speakers, chief guest and all participants, without which such a huge success would not have been achieved. My applaud is incomplete without acknowledging the chairperson of Mewar university, Dr Ashok Kumar Gadiya, the vice chancellor, Professor (Dr) Alok Mishra and his management team for their unflinching supports. Also worthy of mention, is the conference world officials and the convener of the conference, Mr Nura Yakubu and his team, who worked tirelessly toward ensuring the smooth conduct of the conference and its attendant success. It was indeed, an educative and an enlightenment exercise, looking forward to having more of such in the nearest future.

**Mr. Nuhu Bobby Ezekiel**

**Associate Lecturer**

**Mewar University**

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**Prof. Abdul Sattar**

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Sr. Scientist, DRDO

### Keynote Speakers

**Prof. Rajendra Prasad Singh**

School of Civil Engineering, Southeast University, Nanjing, China

**Dr. Hoshiyar Singh Moond,**

Head, Dept. of Physics, K.R. College, Gopalganj, Bihar

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## **PROGRAMME SCHEDULE**

**Day 1: 28.11.2022 (Monday)**

### **INAUGURAL SESSION**

<b>Programme</b>		<b>Time</b>
Anchor	Mr. Nuhu Bobby Ezekiel	
Lamp Lightening and Kulgeet		10.00-10.05 am
Welcome-Theme of the Seminar	Mr. Nura Yakubu Convener	10.05-10.10 am
Introductory Remark & Felicitation of the Guests	Mr. Anand Verdhan Shukla Pro-Vice Chancellor, Mewar University	10.10-10.20 am
Presidential Address	Prof. (Dr.) Alok Misra Vice-Chancellor, Mewar University	10.20-10.30 am
Keynote Speaker	Prof. Rajendra Prasad Singh School of Civil Engineering Southeast University, Nanjing, China	10.30-11.05 am
Guest Speaker	Prof. Abdul Sattar Griffith University, Queensland, Australia	11.05-11.45 am
Speech	Ms. Reshu Gupta Organizer Member Conf. World	11.45-12.00 pm
Chairperson Address	Dr. Ashok Kumar Gadiya, Chairperson, Mewar University	12.00-12.15 pm
Unveiling of Conference Proceeding Poster		12.15-12.17 am
1Vote of Thanks	Mr. Lone Faisal Co-Convener	12.17-12.20 pm
<b>Tea Break</b>		<b>12.20-12.40 pm</b>

<b>TECHNICAL SESSION – I</b>		
<b>Session Chair: Prof. R. Raja, Dean, Faculty of Engineering &amp; Technology</b>		
Keynote speaker	Dr. Hoshiyar Singh Moond, Head, Dept. of Physics, K.R. College, Gopalganj, Bihar	12.40-1.00 pm
Oral Presentations		1.00 – 1.40 pm
<b>Lunch</b>		<b>1.40-2.15 pm</b>
<b>TECHNICAL SESSION – II</b>		
<b>Session Chair: Prof. Hari Singh Chauhan, Professor, Dept. of Physics</b>		
Keynote speaker	Prof. Muhammad Tanko Vice Chancellor, Mewar International University Nigeria	2.15-2.30 pm
Keynote speaker	Dr. Suchismitha Pathak MBBS, FCCS CCEBDM, Sai Tirupathi University, Udaipur	2.30-2.45 pm
Oral Presentations		2.45 – 3.40 pm
<b>Tea Break</b>		<b>3.40-3.55 pm</b>
<b>TECHNICAL SESSION – III</b>		
<b>Session Chair: Dr. Sonia Singla, Dean, Faculty of Humanities and Social Science</b>		
Invited speaker – 5	Prof. (Dr.) Babayo Muhammad Tukur Head, Dept. of Nursing Science, University of Maiduguri, Borno State, Nigeria.	3.55- 4.15 pm
Oral Presentations		4.15-4.55 pm
<b>NATIONAL ANTHEM</b>		
<b>END OF DAY 1</b>		

## Day 2: 29.11.2022 (Tuesday)

<b>TECHNICAL SESSION – IV</b>		
<b>Session Chair: Dr. Gulzal Ahmad. HOD Department of Physics</b>		
Keynote speaker	Dr. Syed Muzammil Basha Professor, REVA University Bangluru Karnataka	10.00-10.20 am
Keynote speaker	Dr. Parthasarathi Hota MBBS, MS, FMAS General and laparoscopic surgeon, PIMS, Udaipur	10.20-10.40 am
Oral Presentations		10.40-12.15 pm
Tea Break		12.15-12.30 pm
<b>TECHNICAL SESSION – V</b>		
<b>Session Chair: Prof. Y. Sudershan, Dean, Faculty of Agriculture</b>		
Keynote speaker	Dr. Mukesh Sharma Asst. Director, State Forensic Science Laboratory, Govt. of Rajasthan, India	12.30-12.50 pm
Oral Presentations		12.50 – 1.50 pm
Lunch		1.50-2.45 pm
<b>VALEDICTORY SESSION</b>		
Welcome to Dias	Mr. Nura Yakubu Convener	3.00-3.10 pm
Rapporteur's Report	Dr. Sumit Kumar Pandey Department of Mass, Media and Communication,	3.10-3.20 pm
Message by the Vice-Chancellor	Prof. (Dr.) Alok Mishra Vice-Chancellor, Mewar University	3.20-3.35 pm
Guest of Honor	Prof. Abdul Sattar Griffith University, Queensland, Australia	3.35-3.45 pm
Guest of Honor	Dr. Anita Singh Sr. Scientist, DRDO Dehradun India. And Mr.. Sandeep Bisht Scientist DRDO Dehradun India.	3.45-4.00 pm
Valedictory Address by the Chief Guest	Prof. Mehrajuddin Mir Former VC, Central University of Kashmir, Jammu & Kashmir	4:00-4.25 pm
Overseer	Mrs Deepti Shastri Deputy registrar Mewar University Rajasthan	
Certificate Distribution		4.25-4.35 pm



Vote of Thanks	Dr. Gulzar Ahmed, and Mr. Nuhu Bobby Ezekiel Joint Organizer	4:35-4.40 pm
NATIONAL ANTHEM		
END OF DAY 2		

**All papers will undergo a double-blind peer review process and the criteria for acceptance will be based on quality, originality, technical content and relevance.**

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Total 114 papers were received for the conference and 72 papers were shortlisted by the committee.

1. Accepted papers will be published in the peer reviewed international journals having ISSN & High Impact factor.
2. Selected Papers will be published in the UGC Care listed international journals having ISSN & High Impact factor.
3. Few very good quality Papers will be published in the Scopus indexed journal having ISSN & High Impact factor.
4. Author will get certificates, one for paper publication in Journal other for paper presentation in conference as per their choice
5. All the papers of the conference will be published in the conference proceeding with ISBN.
6. All the accepted and presented/ Non-Presented papers will be indexed in Google scholar & IDIIF.

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