



# PODDAR

## INTERNATIONAL COLLEGE

**NAAC Accredited**

(Approved by UGC, & affiliated to University of Rajasthan, Jaipur)

## **International Conference on Research, Innovations and Practices in Science, Technology and Management for Societal Benefits**

**[RIPSTMS-2022]**

**8<sup>th</sup> & 9<sup>th</sup> April 2022**

**In Association With:**



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**International Conference on Research,  
Innovations and Practices in Science, Technology  
and Management for Societal Benefits**

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**8<sup>th</sup> & 9<sup>th</sup> April 2022**

**Editors**

Dr. Sunil Kakkar

Dr. Utkarsh Kaushik

Dr. Vinod Kumar Jain

Ms. Shilpi Damor

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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. Conference world has organized a 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 Research, Innovations and Practices in Science, Technology and Management for Societal Benefits [RIPSTMS-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 43 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America 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, 04 represented by the delegates. 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 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 Poddar Group of Institution**

Glorious journey of Poddar Group of Institution started in the year 1998 with vision of providing Education with a Purpose to Shape a Better Future" under the leadership of dynamic and charismatic Dr. Anand Poddar to provide distinctive education to the youth of India. The college has set a benchmark to prepare students not only for university exams but also for competitive exams. College is recipient of numerous projects from funding agencies like UGC, DST.

The group today offers bouquet of various programs from school level to Ph.D. level like B.Com., BCA, BBA, BA, B.Ed., B.Sc., MA, M.Sc., M.Com., MBA. in Rajasthan catering to the varied needs for education through its various institutions. One of the institutions of the group, Poddar International College has been accredited by NAAC (An Autonomous Institution of the UGC) for its academic excellence. It has bagged many other prestigious awards including" Best Upcoming Higher Education Institute of Rajasthan "from ASSOCHAM, given by HRD Minister recently. The college is also ranked by IT-Nielson, NIRF agencies for providing value based education.

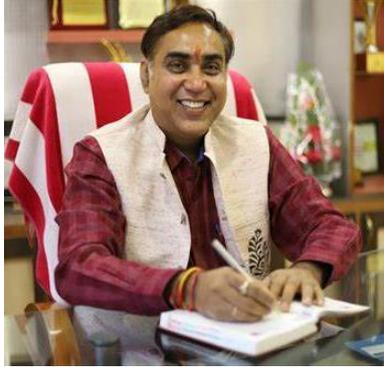
## **About Conference**

Research and Innovation is integral part of Science, Technology and Management. In order to remain on the incisive edge, one must be continually observant, when it comes to following up with the latest trends, distinguishing the most constraining challenges, or conducting their own research.

Research and development (R&D) can foster sustainable development by building greener, more inclusive societies. To be effective, however, infrastructure development, technology transfer and both public and private R&D need to be nurtured and regulated via effective policies.

This conference aims to bring together a range of professionals, researchers, academicians, industrialists, research scholars and students at common platform to interact with expert, innovation in field of Science, Humanities, Information Technology and Management.

## Message of the Chairman



I warmly welcome you to the International Conference on Research, Innovations and Practices in Science, Technology and Management for Societal Benefits. Science, Technology and Management are areas which lay the foundation for advancement of a society and nation. As academicians, educators, industry experts and scholars, it is our responsibility to explore new avenues and opportunities for growth.

I am excited about the sessions, esteemed speakers, guests and wide variety of ideas that scholars will bring into our fold. This richness of ideas bodes well for the field of Science, Technology and Management. The diversity of specializations and related themes will enable us to achieve our targeted mandate and vision.

I am thankful to the conference organizing committee members, the session chairs and numerous volunteers, without whose generous contributions this conference would not have set new record for number of presentations and participants.

I believe that the success of this conference is a meaningful joint work, which will lead to fruitful future endeavours for the benefit of our society. Thank you all for lending your time and efforts to these academic pursuits.

**Dr. Anand Poddar,**

Chairperson, Poddar Group of Institutions

## **Message of the Director**



It is my pleasure to welcome you to the International Conference on Research, Innovations and Practices in Science, Technology and Management for Societal Benefits. As an institution operating at the intersection of education, innovation and research, we at Poddar International College recognize the necessity of this conference in our increasingly innovation-driven world.

Research and innovation are a prerequisite for the growth of any discipline. This is hardly a novel concept; indeed, through the years, research and technology has made our lives easier, better and more comfortable. Today, Science and Management have taken the lead at the forefront of global conversations. It has certainly brought the world closer together. But it has also opened new and unexpected challenges.

All concerned stakeholders must come together to start conversations about these areas. This conference is a part of a series of initiatives we take at Poddar International College to bring together stakeholders from all walks of life including academicians, industry experts, entrepreneurs, researchers and policy makers on a platform where ideas can be freely exchanged. We thank everyone for their enthusiastic participation in the conference and hope for continuing involvement in academic events by Poddar International College.

**Ms. Roopal Poddar,**

Director, Poddar Group of Institutions

## Message of Convenor(s)



Research and Innovation is integral part of science, technology and management. In order to remain on the incisive edge, one must be continually observant, when it comes to following up with the latest trends, distinguishing the most constraining challenges, or conducting their own research. This conference brings together a range of professionals, researchers, academician, industrialist, research scholars and students at common platform to interact with experts, innovation in field of science, humanities, information technology and management.

Looking forward to an excellent interaction with great scientists from different countries around the world and sharing new and exciting results. On behalf of the Poddar International College, it is a great pleasure for us to welcome all the participants to this International Conference on Research Innovations and Practices in Science, Technology and Management for Societal Benefits.

**Dr. Sunil Kakkar**

Adjunct Professor

Poddar International College

**Dr. Utkarsh Kaushik**

Associate Professor

Poddar International College

**Chief Patron(s)**

**Dr. Anand Poddar**, Chairperson, Poddar Group of Institutions

**Ms. Roopal Poddar**, Director, Poddar Group of Institutions

**Hon. Chief Guest**

**Prof. R. A. Gupta**

Vice-Chancellor, RTU Kota

**Guest of Honor**

**Prof. Anil Mehta**

Professor, Banasthali Vidyapeeth, Jaipur, Rajasthan

**Prof. S. C. Joshi**

Emeritus Fellow (UGC), University of Rajasthan, Jaipur

**Keynote Speaker**

**Prof. Kristina Niziol**

University of Szczecin, Iran

**Prof. Rudra Pratap**

VGSOM IIT Kharagpur

**Ms. Agnieszka Słomczyńska**

Economic Analyst, Iran

**Prof K. K. Sharma**

Former VC - MDS University, Ajmer

**Technical Session Chair and Invited Talk**

**Dr. Sanjeev Solanki**

Dean, Himgiri Zee University, Dehradun

**Dr. Chitra Dhvale**

Professor, P R Pote College of Engineering and Management.

**Dr. Sumit Sonkar**

Department of Chemistry, MNIT, Jaipur

**Prof Nimit Gupta**

The NorthCap University, Gurugram

**Conference Advisor**

**Dr. Praveen Goswami**

Principal

Poddar International College

**Dr. Meenu Mangal**

Vice-Principal

Poddar International College

**Conference Convener**

**Dr. Sunil Kakkar**

Adjunct Professor, Poddar International College

**Dr. Utkarsh Kaushik**

Associate Professor, Poddar International College

**Conference Co-Convener**

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Bellary,Karnataka,India.

**Dr. Gomatesh M. Ravanavar,**

Principal, Bahubali College of Engineering, Shravanabelagola  
Hassan District(Karnataka),India

**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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Poddar International College Sector 07, Shipra Path, Near Tagore Hospital, Mansarover,  
Jaipur through online as well as offline with the collaboration of IARDO and  
Conference World on **8<sup>th</sup> & 9<sup>th</sup> April 2022**

Total 111 papers were received for the conference and 43 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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