

Invited Talk and Session Chair by Dr. Ranjan Kumar Jana

Invited Talk / Expert Lectures Delivered: 69

Session Chair/ Judge / Referee: 12

Expert Lectures Organized: 21

Invited Talk / Expert Lectures Delivered: 69

International Level

Delivered an invited talk in **Graduate Students Number Theory Seminar (GSNTS)** at University of Illinois at Urbana-Champaign, USA on April 03, 2014.

Delivered an invited talk in the **Special Session on Complex Function Theory and Special Function** at Spring 2014 Central Sectional Meeting of the American Mathematical Society held at Texas Tech University, Lubbock, Texas, USA during April 11-13, 2014.

Delivered an invited talk at **2nd International Conference on Recent Trends in Mathematics and Its Applications(ICRTMA)** at Vidyasagar University, Midnapore on March 19, 2015.

Delivered an invited talk in the **International Conference on Special Functions and Their Applications (ICSFA 2015)** held at Amity University, Noida.

Delivered an invited talk in the **International Conference on Special Functions and Their Applications (ICSFA 2016)** held at Jamia Millia Islamia, New Delhi on 10.09.2016.

Delivered an invited talk in the **International Conference on Special Functions and Their Applications (ICSFA 2017)** organized by Government College of Engineering, Bikaner, Rajasthan during November 2 - 4, 2017.

Delivered an invited talk in the **83rd Annual Conference of Indian Mathematical Society-An International Meet**, held at Sai Venkateswara University, Tirupati during December 12-15, 2017.

Delivered an invited talk on "*Geometric and Asymptotic properties of Extended Hypergeometric Functions*" at **International Conference on Special Functions & Applications (ICSFA-2018)**, held at Amal Jyothi Engineering College, Kanjirapalli, Kottayam, Kerala during November 22-24, 2018.

Delivered an invited talk entitled "*A Study on Geometrical Significance of Fractional Calculus*" in the **84th Annual Conference of Indian Mathematical Society-An International Meet**, held at Shri Mata Vaishno Devi University, Jammu during November 27-30, 2018.

Delivered an invited talk entitled "*An Optimization approach to study Bicycle Sharing System for Surat City*" at **2nd International Conference on Information Technology and Applied Mathematics (ICITAM 2019)** held at Haldia Institute of Technology, West Bengal, during March 07-09, 2019.

Delivered an invited talk entitled "*Generalizations of Sheffer polynomials and their q -*

analogue” at **International Conference on Number theory and Graph Theory (ICNG-2019)** held at University of Mysore, Mysuru, Karnataka, during June 27-29, 2019.

Delivered an invited talk entitled *”Some Studies on extended Wright type hypergeometric functions”* at **International Conference on Special Functions and Their Applications (ICSFA 2019)** organized by Government College of Engineering, Bikaner, Rajasthan during October 21-23, 2019.

National Level

”On Numerical Weather Prediction” at **AICTE sponsored SDP** on Application of Mathematical Sciences & Soft Computing organized by ASHD, SVNIT, Surat on 09-12-2008.

”Stochastic Processes” at **AICTE sponsored STTP** on Machine Learning and Soft Computing organized by COED, SVNIT, Surat on 31.12.2008.

”Decomposition of Matrix” at **AICTE sponsored STTP** on Machine Learning and Soft Computing organized by COED, SVNIT, Surat on 31.12.2008.

”On Numerical Weather Prediction-A Case study” at **AICTE sponsored STTP** on Recent Scientific and Technological Advances in Physical Sciences organized by ASHD, SVNIT, Surat on 31.12.2008

”Introduction to MATLAB” at **AICTE Sponsored STTP** on Advances in Condensed Matter Physics organized by Department of Applied Physics, SVNIT, Surat during August 31- September 4, 2009.

”MATLAB Basics” at **AICTE sponsored STTP** on Mathematical Modeling and Simulation organized by AMHD, SVNIT during December 21-25, 2009.

Delivered invited lecture on *”Linear Programming Problem Solution by Simplex Method”* at PG Section of Transportation Engineering and Planning of CED, SVNIT.

Delivered **Seven** invited lectures on **Different topics of Special Functions and Integral Transforms** at TEQIP sponsored STTP on *”Mathematical Methods for Physical Sciences and Engineering (MMPSE 2013)”* during May 6-10, 2013.

Delivered **Nine** invited lectures on **Different topics of Operations Research** at TEQIP sponsored STTP *”Optimization Techniques for Scientists and Engineers (OTSE 2013)”* during June 17-21, 2013.

Delivered **Eleven** invited lectures at TEQIP sponsored **Two Week Short Term Course (STC)** on *”Mathematical Methods for Scientists and Engineers (MMSE 2015)”* during 29.06.2015 to 10.07.2015 at SVNIT, Surat.

Delivered an invited talk in the **UGC sponsored National Seminar** on *”Recent Trends in Biomathematical Modeling under uncertain Environment”* at Mugberia Gangadhar Mahavidyalaya, West Bengal.

Delivered an expert lecture at **One Day State Level Seminar** on *”Optimization Techniques for Engineers and Researchers”* at Vadodara Institute of Engineering on 11.12.2015.

Delivered **Two** expert lectures at **One Week Short Term Training Programme**

on "**Computational Techniques for Differential Equations (CTDE 2016)**" during May 2-6, 2016 under TEQIP-II at SVNIT, Surat.

Delivered **Two** expert lectures at **One Week Short Term Training Programme** on "*Advanced Engineering Optimization through Modern Computing Techniques*" held at Smt. S. R. Patel Engineering College, Unjha, Mehsana, Gujarat during December 05-09, 2016, sponsored by **GUJCOST**. (Lectures delivered on 06.12.2016)

Delivered a lecture about SVNIT and Mathematics Department at **Tolani College of Arts and Sciences, Adipur, Kutch, Gujarat** on 16.12.2016.

Delivered an expert lecture at **TEQIP-II sponsored Short Term Training Programme** on "*Role of Physics in Technology Development (RPTD-2017)*" during January 2-6, 2017 held at SVNIT on 03.01.2017.

Delivered an invited talk on "*Applications of Linear Programming Problems and Computations through Lingo Software*" at **Marwadi University, Rajkot, Gujarat** on 11.03.2017.

Delivered **Eight** expert lectures at **TEQIP-II sponsored Short Term Training Programme** on "*Transform Methods in Science and Engineering (TMSE 2017)*" during March 6-10, 2017, held at SVNIT.

Delivered an invited talk on "*Data Assimilation Techniques in Numerical Weather Prediction*" at **Haldia Institute of Technology, West Bengal** on 17.03.2017.

Delivered an invited talk on "*New trends in transforms and Applications in Weather Forecast*" at **Mukesh Patel School of Technology, Management and Engineering, Mumbai** on 20.03.2018.

Delivered an invited talk in the **Ramanujan Memorial Lecture Series-2** on "*Bessel Function Series in Connection with Ramanujan Mathematics*" at Mugberia Gangadhar Mahavidyalaya, West Bengal, on 26.03.2018.

Delivered an invited talk on "*Research Scope and Opportunities in Mathematics*" at Mugberia Gangadhar Mahavidyalaya, West Bengal, on 26.03.2018.

Delivered an invited talk on "*Mathematics of Numerical Weather Prediction*" at Govt. M. H. College of Home Science & Science for Women, Jabalpur in the **National Seminar on Parallel Computing & Optimization Techniques** during February 23-24, 2019.

Delivered an invited talk on "*Optimization Technique for Public Bicycle Sharing System*" at Govt. M. H. College of Home Science & Science for Women, Jabalpur in the **National Seminar on Parallel Computing & Optimization Techniques** during February 23-24, 2019.

**Session Chair/
Judge / Referee:**
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1. **Chaired a session of International Conference on Bioinformatics**, held at SVNIT during March 25-28, 2010.

2. **Chaired a session of International Conference of International Academy of Physical Sciences (CONIAPS-XIV)** held at SVNIT, Surat during December 22-24, 2011.

3. **Chaired a session** in the UGC sponsored National Seminar on "*Recent Trends in Biomathematical Modeling under uncertain Environment*" at Mugberia Gangadhar Mahavidyalaya, West Bengal.
4. **Chaired a technical session** of International Conference on Special Functions and Their Applications (ICSFA 2016) held at Jamia Millia Islamia, New Delhi on 10.09.2016.
5. Act as **Judge / Referee** for **Poster Presentations of Ph.D. Students at Annual Summit on Research and Innovation** on 15.10.2016 organized by Research Park and Innovation Centre, SVNIT, Surat.
6. **Chaired a technical session** of International Conference on Special Functions and Their Applications (ICSFA 2017) organized by Government College of Engineering, Bikaner, Rajasthan during November 2 - 4, 2017.
7. **Chaired a technical session** of UGC Sponsored 3-Day Workshop on Introduction to Algorithms with Special Emphasis to Graph Algorithms organized by Vidyasagar University, Midnapore & ADMA during March 27-29, 2018.
8. Act as **Judge** in the subject of **Mathematics** for **Inquest 3.0** on 16.02.2019.
9. **Chaired a technical session** (session V) of **2nd International Conference on Information Technology and Applied Mathematics (ICITAM 2019)** held at Haldia Institute of Technology, West Bengal, during March 07-09, 2019.
10. Act as **Judge** in the subject of **Mathematics** for **Inquest 4.0** on 01.02.2020.
11. Act as **Judge** for **Poster Presentations Competition** of Ph.D. Students at **Mathematics Colloquium** on the occasion of **International Day of Mathematics** on 14.03.2020 at AMHD, SVNIT, Surat.
12. Act as **Judge** for **Paper Presentations Competition** at **Mathematics Colloquium** on the occasion of **International Day of Mathematics** on 14.03.2020 at AMHD, SVNIT, Surat.

Expert Lectures Organized: 21

1. Organized Expert Lecture on "*A Brief Introduction to Cryptology and Secret Sharing*" by **Professor Bimal Roy, Director, ISI Kolkata** on 09.02.2012.
2. Organized Expert Lecture on "*Identity-based Cryptography*" by **Dr. M. L. Das, Associate Professor, DA-IICT, Gandhinagar** on 11.05.2012.
3. Organized Expert Lecture on "*Satellite Data for Weather Prediction: A Mathematical Challenge*" by **Dr. P. C. Joshi, Brahamaprakash Scientist, ISRO, Ahmedabad** on 12.06.2012.
4. Organized Expert Lecture on "*SPSS Software and Its Applications*" by **Gaurav Kumar, Binary Semantics Ltd., Bangalore** on 16.02.2015.
5. Organized Expert Lecture on "*Data Assimilation*" by **Dr. P. K. Pal, Outstanding Scientist (Retired), Space Applications Centre (ISRO), Ahmedabad** on 05.05.2016.
6. Organized Expert Lecture on "*Data Assimilation in Meso-scale Models*" by **Dr.**

Rakesh V., Scientist, CSIR Fourth Paradigm Institute (CSIR-4PI), Bengaluru on 27.07.2016.

7. Organized Expert Lecture on "*Uniformly Convergent Numerical Schemes for Singular Perturbation Problems on Layer-Adapted Meshes*" by **Prof. S. Natesan, IIT Guwahati** on 23.09.2016.

8. Organized Expert Lecture on "*Nanotechnology: Small and Beautiful*" by **Prof. S. Kulkarni, IISER, Pune** on 24.09.2016.

9. Organized Expert Lecture on "*Option Pricing and Credit Risk*" by **Prof. M. K. Ghosh, IISc. Bangalore**, on 22.11.2016.

10. Organized Expert Lecture on "*Electron and Ion (Mass) Spectroscopy on some advanced functional materials*" by **Dr. M. K. Dalai, Scientist, CSIR-National Physical Laboratory, New Delhi** on 12.05.2017.

11. Organized Expert Lecture on "*Euler Constant*" by **Prof. Michel Waldschmidt, Emeritus Professor, Universit Pierre et Marie Curie (Paris 6), France** on 01.12.2017.

12. Organized Expert Lecture on "*Power Series*" by **Prof. S. Ponnusamy, Professor, Department of Mathematics, IIT Madras, Chennai** on 02.02.2018.

13. Organized Expert Lecture on "*Bessel Wavelet Transform*" by **Prof. S. K. Upadhyay, Professor, Department of Mathematical Sciences, IIT BHU, Varanasi** on 22.02.2018.

14. Organized Expert Lecture on "*Measure Theor*" by **Prof. Inder K. Rana, Emeritus Professor, IIT Bombay, Mumbai** on 18.03.2018.

15. Organized Expert Lecture on "*Nobel Prize in Physics 2017*" by **Dr. Pruthul Desai, Principal, P.T. Science College, Surat** on 18.03.2018 as a part of PRAKRITI 2018.

16. Organized Expert Lecture on "*Deterministic ODE Models in Population Ecology*" by **Prof. Bindhyachal Rai, Professor (retired) & Former Head, Department of Mathematics, University of Allahabad, Allahabad** on 11.10.2018.

17. Organized Expert Lecture on "*A lucid introduction to error correcting codes*" by **Prof. Michel Waldschmidt, Sorbonne University, Paris, France** on 14.12.2018. (through A-VIEW from K. J. Somaiya College of Engineering, Mumbai)

18. Organized Expert Lecture on "*Routh-Romanovski Orthogonal Polynomials*" by **Dr. A. Swaminathan, Associate Professor, Department of Mathematics, I.I.T. Roorkee** on 22.03.2019.

19. Organized Expert Lecture on "*Convex optimization and Support vector machines*" by **Dr. S. K. Gupta, Associate Professor, Department of Mathematics, I.I.T. Roorkee** on 30.03.2019.

20. Organized Expert Lecture on "*Some Heuristic Methods and their Applications in NP hard problems*" by **Prof. Manoranjan Maiti, Professor (Retired), Department of Applied Mathematics with Oceanology & Computer Programming,**

Vidyasagar University, Midnapore on 01.04.2019.

21. Organized Interactive Session on "*Scope and Opportunities to study at GSU, USA*"
by **Mr. Krishna Prasanth, Governors State University, USA** on 01.05.2019. ¹

¹Last updated on April, 2020