



on

Recent Advances in Mathematical Sciences with Applications in Engineering and Technology

IC-RA-MSA-ET-2022

From **June 16-18, 2022** (Blended Mode)

<http://ccbb.jnu.ac.in/rams22/>

Venue: Convention Centre/SC&IS, JNU, New Delhi-110067, India

**Registration Link for Abstract Submission: <https://forms.gle/rR2YDgamxPxdgKHB6>

The registration (abstract) will be closed on **15th May, 2022** (12:00 Midnight)

Audience

Students, Faculty members, Scientists, Industrialists & Research Scholars.

Certificate/E-certificate* will be given to the registered participants after successful completion of the event and feedback form submission.

For any query, please contact at:

Email: jnuseminars1@gmail.com

Tel No.: +91-991036414

All accepted papers after strict reviewing & editorial process.

(as per journal policy) of ICRA-MSA-ET-2022 will be published in

*SCI/*SCIE/*SCOPUS/*WoS/*ESCI/*UGC Care

Groups/*Scopus or Indexed Conference Proceedings

*Charges Applicable Journal names and Books proceeding name will be shared with participants

Important Dates

Abstract Submission Last Date:	15 May 2022
Abstract Acceptance:	One Week from Submission
Full Paper Submission:	25 May 2022 (Separate link will be shared after the acceptance of paper)
Acceptance:	One Week from Submission
Conference registration open:	01 June 2022 http://ccbb.jnu.ac.in/rams22/index.php/register
Conference registration end:	08 June 2022
On the Spot Registration:	16 June 2022

Registration fee details

	<u>By Due Date</u>	<u>On-Spot</u>
- For participants without accommodation	₹ 1500.00	₹ 2000.00
- For Paper Presenters of Host Country (for students/research scholars) without accommodation	₹ 2500.00	₹ 3000.00
- For Paper Presenters of Host Country (for Industrial Delegates, Scientists, and faculty members) without accommodation	₹ 3500.00	₹ 4000.00
- For Paper Presenters of Other Countries (for Industrial Delegates, Scientists and faculty members) without accommodation	₹ 6000.00	₹ 7000.00
- Accommodation may be provided upon availability on prior request basis with extra charges as per the actual rate of the guest house/hotels	Notify later	

₹ Payments should be made on:

Account Name: JNU Sponsored Seminar/Conference
A/C No.: 35404650496
IFSC Code: SBIN0010441
Account Type: Saving
Bank Name: State Bank of India,
and Address: JNU New Campus,
Near Godavari Hostel, JNU,
New Delhi-110067, India

- Send the screenshot of the payment for the confirmation of your registration to:

jnuseminars1@gmail.com

- Registration fee includes conference kit, abstract booklet, breakfast, lunch, evening tea.

Dear,
Students, Faculty members, Scientists,
Industrialists & Research Scholars.

It is our great pleasure to invite you to participate in the
offline International conference on Recent Advances in
Mathematical Sciences with Applications in Engineering and
Technology (IC-RA-MSA-ET-2022) on 16-18 June, 2022.

Call for Original Abstract/Papers

- All academicians/researchers/research scholars related to the conference theme are kindly requested to submit original abstract for presentation.
- **Last date** for submission of abstract for contributory talk is **15th May, 2022.**
- For more information about the guidelines, please contact at **jnuseminars1@gmail.com** or call at **+91-9910136414.**

The aims of the conference are:

✓ To enrich participants with the latest trends in the field of Recent Advances and Developments in Mathematics & Computational Optimizations, also its future scope of research in interdisciplinary areas of science, technology, engineering, industries, social science, etc., in the light of practical needs and the prospective use of Mathematics and scientific methods to promote the cooperation/collaboration among the academics, researchers and scientists in the arena.

✓ To provide the platform for Students, Engineers, Researchers, Technocrats and Scientists to share the knowledge in the recent interdisciplinary fields of engineering, science, technology, Applied Sciences

Main Themes of the Conference

 **Call for Papers** (Kindly write down Track No. on your paper while submitting)

Track#1 : Graph Theory and Petri Nets

Co-ordinator: **Dr. Gajendra Pratap Singh**

Assistant Professor, School of Computational and Integrative Sciences,
Jawaharlal Nehru University, New Delhi-110067, India
e-mail: gajendra@mail.jnu.ac.in | Mobile: 91-9910136414

Themes

- Graph Theory Modelling and its Applications
- Petri-nets Applications and Simulations
- Network Analytics and Applications in Bio-informatics, National Cadet Corps and Defence Security
- Graph Theoretical and Mathematical Models including Weather, ocean and Climate Change
- Graph & Matrices, Signed Graph, Energy of Graph, but not limited
- Innovative and Creativity Mathematical Models
- Network Optimizations
- Mathematical Modelling for Ayurveda Biology and System Sciences

Track#2 : Cryptography & Network Security

Co-ordinator : **Dr. Pankaj Kumar**

Assistant Professor, Srinivasa Rananujam Department of Mathematics
Central University of Himanchal Pradesh, India
Mobile: 9540344621 | e-mail: pkumar240183@gmail.com

Themes

- Symmetric Cryptography
- Public Key Cryptography
- Identity based Infrastructure
- Lightweight Cryptography

- Post Quantum Cryptography
- Lattice based Cryptography
- Public Key Encryption and Protocols
- Cryptographic Constructions
- DNA Cryptography
- Cryptanalysis
- Implementation Aspects
- Information Theory
- Coding Theory
- Number Theory
- Quantum Computing
- Cryptographic Aspects of Network Security will also be considered
- Hashing Techniques

Track#3 : Differential Geometry, Algebra and Topology

Co-ordinator : **Dr. Praveen Kumar**

Associate Professor, Dept. of Mathematics ,Ramjas College, University of Delhi

Mob: +91-9910798929 | Email: praveen.kumar@ramjas.du.ac.in

Themes

- Topological Dynamics
- Symbolic Dynamics
- Fuzzy Topology and related topics
- Algebra Applications in Engineering & Technology
- Differential Geometry Applications

Track#4 : Mathematical Biology & Differential Equations

Co-ordinator :

Dr. Dharmendra Kumar

Associate Professor, Dept. of Mathematics, Sri Guru Tegh Bahadur Khalsa College, University of Delhi

Themes

- Mathematical Biology
- Mathematical methods to obtain analytical solutions
- Non-linear evolution equations
- Non-linear partial differential equations
- Mathematical Modelling

Track #5 : Quantitative Techniques for Healthcare Management

Dr. Kaushal Kumar

Assistant Professor, Department of Operational Research, Faculty of Mathematical Science, University of Delhi.

Themes:

- Healthcare Marketing
- Cost effective and efficient delivery of services
- Healthcare Planning
- Health policy
- Role of Mathematical Modelling in Healthcare
- Application of Statistics in Healthcare
- Forecasting in Healthcare Operations
- operations Management in Healthcare
- Healthcare financing in Economics
- Queuing Analysis in Healthcare
- Simulation Modelling in Healthcare
- Healthcare Technology Management
- Health Promotion and Education
- Healthcare Delivery and Access Healthcare
- Digital Healthcare

Track#6: Discrete Mathematics & Computer Science Applications

Co-ordinator: Dr. Gajendra Pratap Singh

Assistant Professor, School of Computational and Integrative Sciences,
Jawaharlal Nehru University, New Delhi-110067, India, e-mail: gajendra@mail.jnu.ac.in | Mobile: 91-9910136414

Themes

- Complex Systems and Bio-informatics
- Optimization Techniques and its Applications
- Machine Learning and Applications
- Big Data, Cloud Computing, Data Analytics and Mining
- Parallel and Distributed Computing
- Discrete Mathematics and Applications
- Application of Network in System Biology
- Other Similar Related Areas

Track #7 : Role of Ancient Mathematics in Science, Engineering & Technology

Co-ordinator: Dr. Gajendra Pratap Singh

Assistant Professor, School of Computational and Integrative Sciences,
Jawaharlal Nehru University, New Delhi-110067, India
e-mail: gajendra@mail.jnu.ac.in | Mobile: 91-9910136414

Themes

- Historical aspects of Modern Mathematics
- History & Development of Mathematics Applications
- History of Mathematics in Education Curricula
- History of Teaching different Mathematics Subjects (Algebra, Geometry, Calculus etc.
- Mathematics and its relations to Science, Technology & Engineering
- New Development of Research & Pedagogy of Mathematics
- New Development of History of Mathematics
- The Problems, Issues and Solutions in developing Mathematics Course for the History of Mathematics at Secondary/Undergraduate/Post Graduate and Research Level

Track #8 : Role of Vedic Mathematics in Science, Engineering & Technology

Co-ordinator: Dr. Gajendra Pratap Singh/

Assistant Professor, School of Computational and Integrative Sciences,
Jawaharlal Nehru University, New Delhi-110067, India
e-mail: gajendra@mail.jnu.ac.in | Mobile: 91-9910136414

Dr. Rakesh Bhatia

Vedic Mathematics Expert, Board of School Education, Haryana
email- rakeshbhatia106@gmail.com | Mob: 91-9466235578

Themes

- Applications and Recent Trends of Vedic Mathematics Sutras
- Extending Mathematics using the Sutras
- Vedic Maths in Education
- Philosophy of Vedic Mathematics
- The Problems, Issues and Solutions in developing Vedic Mathematics Course for the History of Mathematics at Secondary/Undergraduate/Post Graduate and Research Level
- Other related topics
-

Track #9 : Mathematical Modelling of Bio-Molecular Interactions and Applications to Biological Systems

Co-ordinator: Dr. Gajendra Pratap Singh

Assistant Professor, School of Computational and Integrative Sciences,
Jawaharlal Nehru University, New Delhi-110067, India
e-mail: gajendra@mail.jnu.ac.in, | Mobile: 91-9910136414

Dr. Kavita Arora

Assistant Professor, Advanced Instrumentation Research Facility,
Jawaharlal Nehru University, New Delhi-110067, India
e-mail: kavitaarora@mail.jnu.ac.in; kavitaarora@jnu.ac.in

Themes

- Diseases
- Drug Designing
- Biological Processes
- Biosensors
- Theranaustics
- In Vitro and in Vivo Studies in Biomedical Devices
- Environmental Monitoring
- Agriculture
- Food Processing
- Quality Control Analysis
- Nano-Biotechnological Applications
- Wearable Devices

Track #10 : Mathematical Modelling of Biomechanics with Reference to Biological Systems

Co-ordinator : **Dr. Sapna Ratan Shah**

Associate Professor

School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi-110067, India

Email: sapnarshah@mail.jnu.ac.in

Themes

- Applications of Different Equations in Biological Systems
- Applied Mathematics
- Fluid Mechanics
- Biomedical Engineering
- Neurophysiological Diseases
- Bio-mechanical Aspects of Biological Systems

Track #11 : Mathematical Modelling of Biomechanics with Reference to Biological Systems Application of Machine Learning in Neuroimaging

Co-ordinator : **Dr. Akshansh Gupta**

Scientist, Intelligence System Group CSIR-CEERI, Pilani, Rajasthan, India

Email: akshanshgupta@ceeri.res.in

Themes

- Electroencephalograph(EEG) Signal Processing Through Machine/Deep Learning to Design of Assistive Devices
- Electroencephalograph(EEG) Signal Processing Through Machine/Deep Learning to Monitor Brain Functionality
- Design of Machine/Deep Learning Algorithms on functional Magnetic Resonance Imaging(fMRI) of the Brain for Neurodegenerative Disorder
- Design of Machine/Deep Learning Algorithms on functional Magnetic Resonance Imaging(fMRI) of the Brain for Analysis of the Mild Cognitive Impairment

Highlights of the Conference

All Accepted papers for conference presentation will go through for blind review process. After strict reviewing & editorial process (as per journal policy) will be published in the following journals. Charges applicable.

JOURNALS

- **Jnanabha (Vijnana Parishad of India) Journal** as special/regular issue (UGC Approved Journal, weblink: <https://www.vijnanaparishadofindia.org/jnanabha> , Print ISSN 0304-9892, Online ISSN 2455-7463) (T & C apply)
- **Advances and Applications in Mathematical Sciences** as special/regular issue in Open Access Model (charges applicable), ISSN 0974-6803 (ESCI, Web of Science)
- **International Journal of Mathematical, Engineering and Management Sciences** are Open Access (ISSN: 2455-7749) as regular issue. (ESCI, SCOPUS)
- **Journal of International Academy of Physical Sciences** (0974-9373, regular issue)

Few more journals and edited books are in pipeline.

All submitted papers with page length (at least 12 pages) will be subjected to a Plagiarism check by Turnitin Software. Papers achieving less than 10% similarity score excluding reference will only be sent for review.



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(IC-RA-MSA-ET-2022)

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- Rashmi Bhardwaj, University School of Basic & Applied Sciences, GGSIPU, New Delhi , India
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- Paulraj Rajamani, SES, JNU, New Delhi
- Dinesh Mohan, SES, JNU, New Delhi





ABOUT THE

SCHOOL OF COMPUTATIONAL AND INTEGRATIVE SCIENCES

Jawaharlal Nehru University, NEW DELHI, INDIA

Erstwhile the School of Information Technology (SIT) established in the year 2001 and renamed as School of Computational and Integrative Sciences (SC&IS) in 2010, the School carries out teaching and research in the interdisciplinary areas of computational genomics, bioinformatics & drug discovery, database management & systems biology, high performance computing and artificial intelligence. The aim of the School is to innovate and integrate computational and analytical approaches adopted in different branches of sciences to find solutions. Rapid advancement in science and the cutting edge technologies enable and drive research in a big way, providing the opportunity to innovate. The School's academic and research programs are currently focused on the core area of computational and systems biology with future emphasis on the study of complex systems, high density data analysis, theoretical biophysical chemistry and computational neurosciences.

- Computational Genomics
- Development of Tools in Bioinformatics
- Structure based Bioinformatics and In Silico Drug Discovery
- Systems Biology
- Statistical Modeling
- Systems Biology
- Complex System Studies
- Crop Genetics & Informatics
- Machine/deep learning for Biological Data Analysis
- Mathematical Biology
- Computational RF and Antenna
- Bimolecular Simulations
- Computational Biophysics
- High-Throughput Sequencing Data Analysis/Genome Informatics
- Petri Nets and Graph Theory

About the VIJNANA PARISHAD OF INDIA

Vijñāna Parishad of India (Having Headquarter at D.V. Post Graduate College, Orai, Jalaun (U.P.), India) is an International Society dedicated to the Application of Mathematics in all fields of Sciences and Technology founded in 1971-72 by Dr. R.C. Singh Chandel (Founder Secretary) inspired by Dr. B.B.L. Srivastava (Former Principal, D.V.P.G. College, Orai, India) with collaboration of Prof. H.M. Srivastava (Foreign Secretary) Victoria University, Canada and Late Prof. J. N. Kapur (Chief Adviser) who became President (1986-2003). Prof. Kapur was also elected the first fellow of the Parishad in 1996.

The society has been publishing its Research Journal "JÑĀNĀBHA" (Sanskrit word for Ray of Knowledge) (Print ISSN - 0304-9892, Online ISSN 2455-7463) since 1971.

This society has reciprocity agreement with The American Mathematical Society and at present is one of the five Indian Societies and thirteen Asian Societies which have such agreement with The American Mathematical Society. The research papers published in Jnanabha are indexed in the American Biweekly Current Mathematical Publications and are reviewed among others, by American Reviews (USA), Zentrablatt for Mathematik (Germany) and Applied Mechanics Reviews (USA). The society stands for the development of mathematical Science in India and encourages the interaction of Mathematics with Engineering, Industrial, Medical, Social, Physical, Biological and Computer Sciences.

Awards and Honours by VIJNANA PARISHAD OF INDIA in IC-RA-MSA_ET-2020

Eminent scientists are honoured by distinct awards as given below:

- **Life long achievement awards**
- **Fellow of VPI awards (FVPI)**
- **Distinguished service awards**
- **Young scientists award for best paper presentation**

In the conference some scientists will also be honoured by **Special VPI Golden Jubilee awards**.

Eligibility

There will be-

1. **06** young scientists awards for best paper presentation,
2. **02** in each area of **scientists award** for best paper presentation,
3. **02** in each area of :
 - a) Pure Mathematics
 - a) Applied Mathematics
 - c) Inter-disciplinary Mathematics

Candidate who is below 35 yrs or has attained the age of 35 yrs on April 30, 2022 will be eligible for being considered for Young Scientist Award.

The candidate who wish to submit the paper for young scientists award should indicate on the top of the paper “for considering of Young Scientists Award” and submit full paper through link :

<https://forms.gle/rR2YDgamxPxdgKHB6> by May 25, 2022.

The paper will be reviewed by the screening committee for selection of paper for presentation in award session.

The candidate must produce appropriate document for prof of age at the time of registration.

***Submission of Feedback form is mandatory for Certificate/E-Certificate**

In case of any queries you can get in touch with the ADMINS of IC-RA-MSA-ET-2022 Whatapps group, or via phone call or whatsapp message to Convenor-Dr Gajendra Pratap Singh, SC&IS, JNU, India.

+91 9910136414 or email: jnuseminars1@gmail.com.

Schedule and Time will be share after finalizing it.

**Registration may close early if the sufficient number of registrations are received.

Contact Details

Lt. Dr. Gajendra Pratap Singh

Convenor & Organizing Secretary, Assistant Professor,

School of Computational and Integrative Sciences,

Jawaharlal Nehru University, New Delhi-110067, India

Email: jnuseminars1@gmail.com, gajendra@mail.jnu.ac.in, gajendra@jnu.ac.in

Mobile: +91-9910136414



Ek Bharat Shreshtha Bharat

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आज़ादी का
अमृत महोत्सव