संख्या

SANKHYA

NEWSLETTER

Volume 3 |Issue 01 & 02 | Jan-Dec 2023

DEPARTMENT OF MATHEMATICS
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA
(DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF UGC ACT 1956)

Inside...

Message from the Head of The Department

It gives me great pleasure and excitement to present another issue of SANKHYA, the newsletter of the Department of Mathematics. This edition, Volume 3, issue 1 & 2 of SANKHYA reflects the numerous achievements of our faculties and students.

The current issue itself showcases remarkable accomplishments of the Department as a whole, from ground breaking research publications to outstanding students' achievements in competitions and projects.

Prof. Alka Tripathi

Our collaborative and vibrant community has been a driving force behind these successes, and I am proud to see the positive impact we are making in the field of mathematics.

Looking ahead, I encourage all of you to continue fostering an environment of intellectual curiosity and collaboration. Together, we can shape the future of mathematics education, research, and applications.

I hope all of you will enjoy reading this issue.

With Best Wishes

Prof. Alka Tripathi
Head of the Department of Mathematics

Message from the Editorial Team

It gives us great pleasure to share another promising and exciting issue of our newsletter "SANKHYA". This Volume of SANKHYA provides insights of our Department, which strives to evolve and build its own place of excellence in teaching and research in almost all the areas of Mathematics. In this edition of our newsletter, we are excited to bring you a diverse array of content that we hope will generate enthusiasm and inspire our readers. Furthermore, this newsletter will function as an arena for instructors' and students' literary and cognitive expertise.

We are thankful to our colleagues who have contributed directly or indirectly in preparing this edition of "SANKHYA". Additionally, we would like to thank our Pro-Chancellor Sir, Vice-Chancellor Sir, and HOD for their support in allowing us to serve on the departmental newsletter committee.

We hope you enjoy this edition, and we look forward to bringing you more exciting content in the future.

Best wishes,
The Editorial Board.

Dr. Amita Bhagat

Dr. Richa Sharma

Issue 01
Jan-June 2023

- **Events Organized by the Department**
- **Alumni Talks Conducted**
- **Flying Colours: Faculty Achievements**
- **Publications by the Faculty Members**
- **Ph.D's Awarded**

Events Organized by the Department

Invited Talk by Dr. Vivek Singh Verma, HBTU, Kanpur. (May 27, 2023)

Title of the Talk: Fundamentals of Image Processing and it's Application in Image Authentication

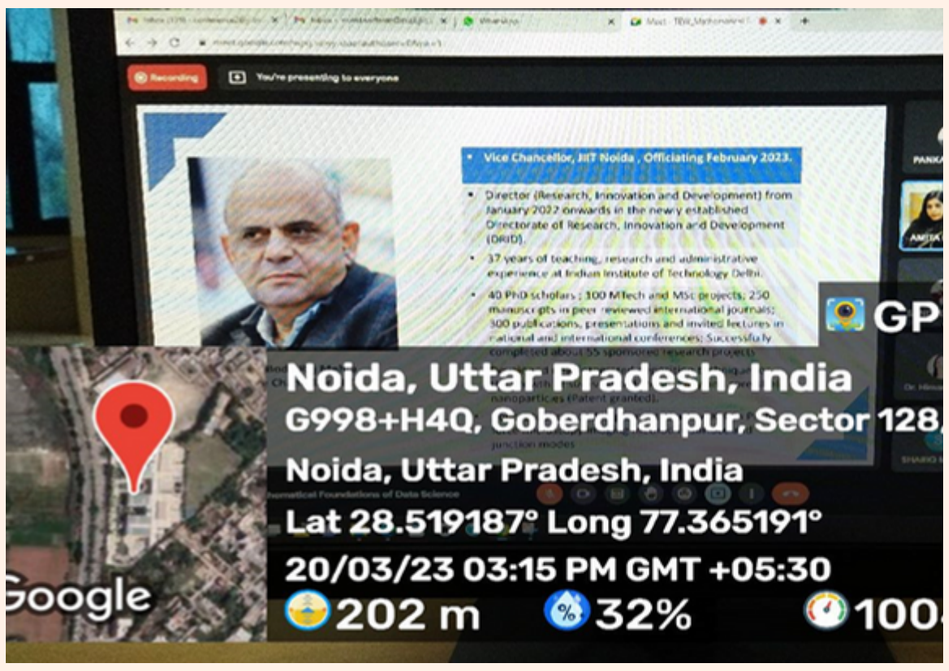
The talk was organized with an aim to study the fundamentals of image processing and to gain a comprehensive understanding of how images can be manipulated, analyzed, and enhanced using various mathematical and computational techniques. By learning the underlying principles, algorithms, and methods, individuals can effectively process and interpret images, extract valuable information, and perform tasks such as image enhancement, restoration, segmentation, and recognition.

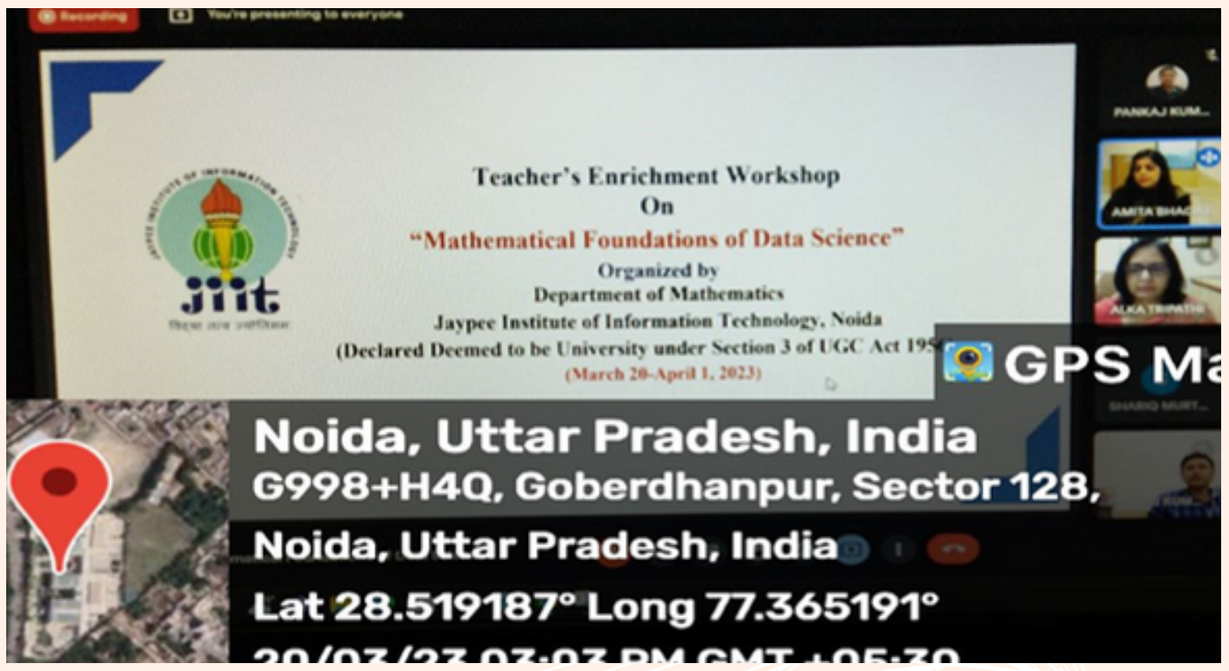
Organized by: Dr. Anuj Bhardwaj

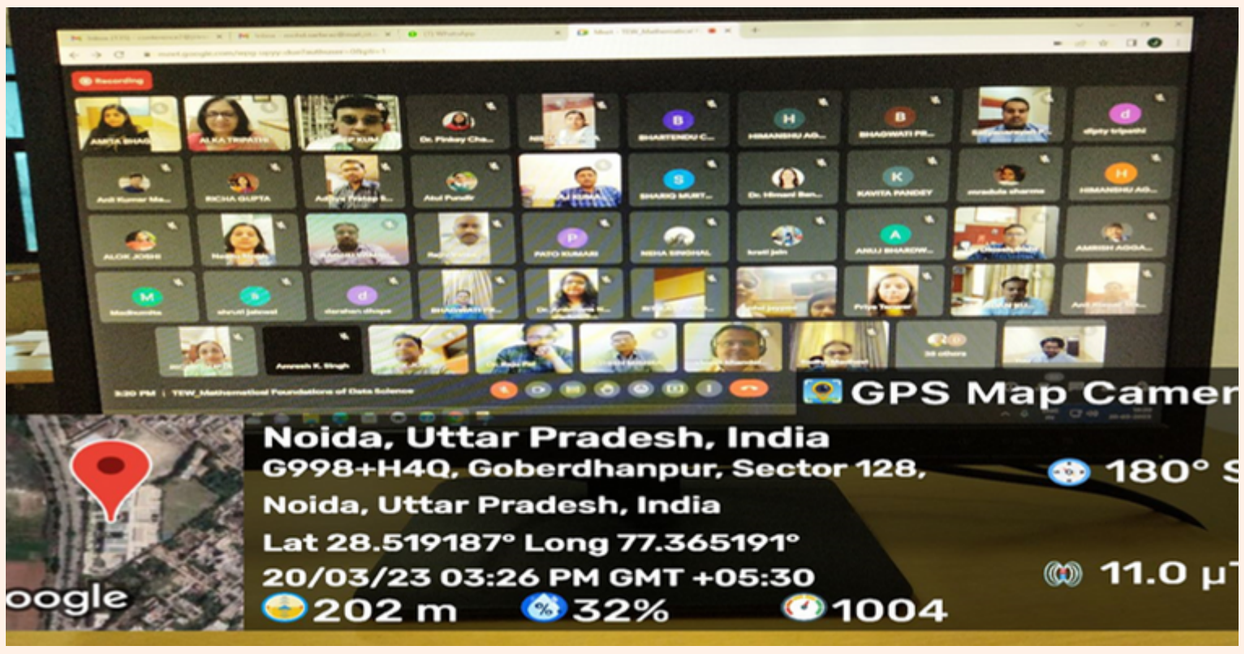
Teacher's Enrichment Workshop on "Mathematical Foundations of Data Science"

March 20, 2023 - April 01, 2023

The Department of Mathematics organized two weeks Teacher's Enrichment Workshop on Mathematical foundations of Data Science from March 20-April 01, 2023. The primary focus of this Workshop was to explore multidimensional significance of mathematics as backbone to Data Science that enhances the beauty of research and science. There is a massive data explosion that has resulted in the culmination of new technologies and smarter products.







Organized by:

Dr. Amita Bhagat

&

Dr. Mohd. Sarfaraz

One Day Workshop on “Proposal Writing for Extra Mural Funding”

May 05, 2023

The Committee of Sponsored Projects, Jaypee Institute of Information Technology, Noida organized a One-day Workshop on May 5, 2023 from 09:30 AM in LT-4 , JIIT 62. The session was delivered on the topic "Proposal Writing for Extra Mural Funding".

The speakers discussed all the aspects in detail. They discussed about various tools and platforms, research trends, data, graphical representations, components of research proposal, etc.

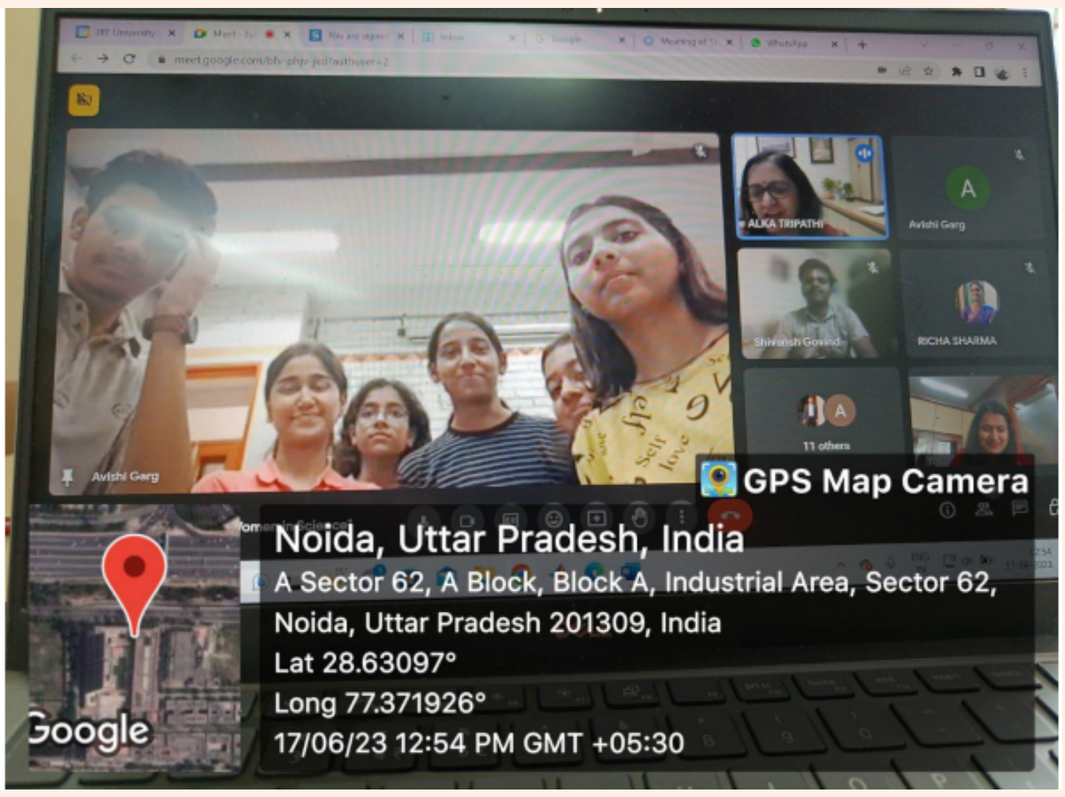
Organized by:

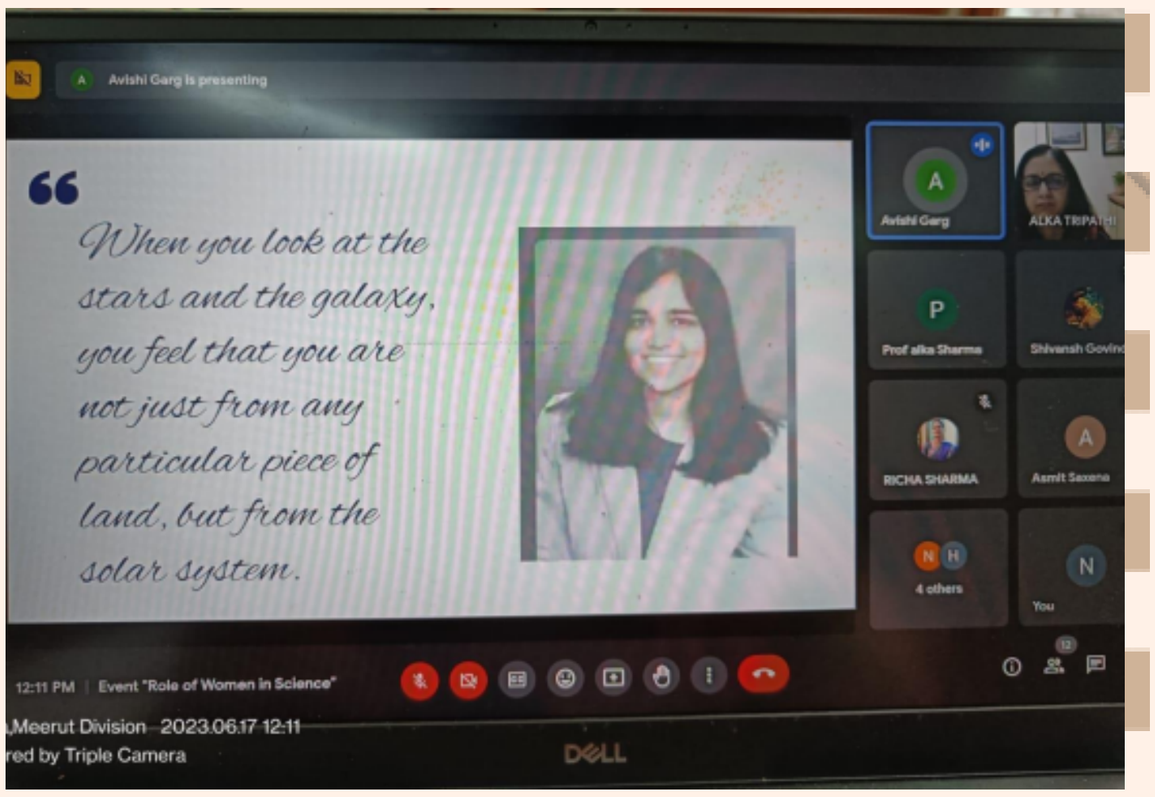
Prof. Pammi Gauba
Prof. Shweta Dang
Dr. Anuj Bhardwaj

Seminar on “Role of Women in Science (Gender Sensitization)”

June 17, 2023

The role of women in science has evolved from a historical struggle against prejudice and discrimination to a powerful and influential presence. Women scientists have demonstrated their capacity for ground breaking discoveries and innovations across various disciplines. Their contributions not only advance knowledge but also inspire future generations to pursue careers in STEM fields. To continue this progress, it is essential to address the remaining gender disparities and ensure that women in science are supported, recognized, and valued for their contributions to the betterment of society. The event focused mainly about the motivating everyone by remembering the achievements of Women in science.





Organized by: Dr. Neha Singhal

One-week Teacher's Training Program for Jaypee Public Schools

May 22, 2023 - May 27, 2023

One-week Teacher's Training Program for PGT teachers of Jaypee public schools was organised by Department of Mathematics from 23/05/2023 to 27/05/2023. Eleven teachers from different schools of Jaypee group have attended this program. The training program consisted of a series of lectures and hands-on activities designed to address the diverse needs and skill levels of participating teachers. This program was helpful in improving pedagogical skills and knowledge of instructional strategies.

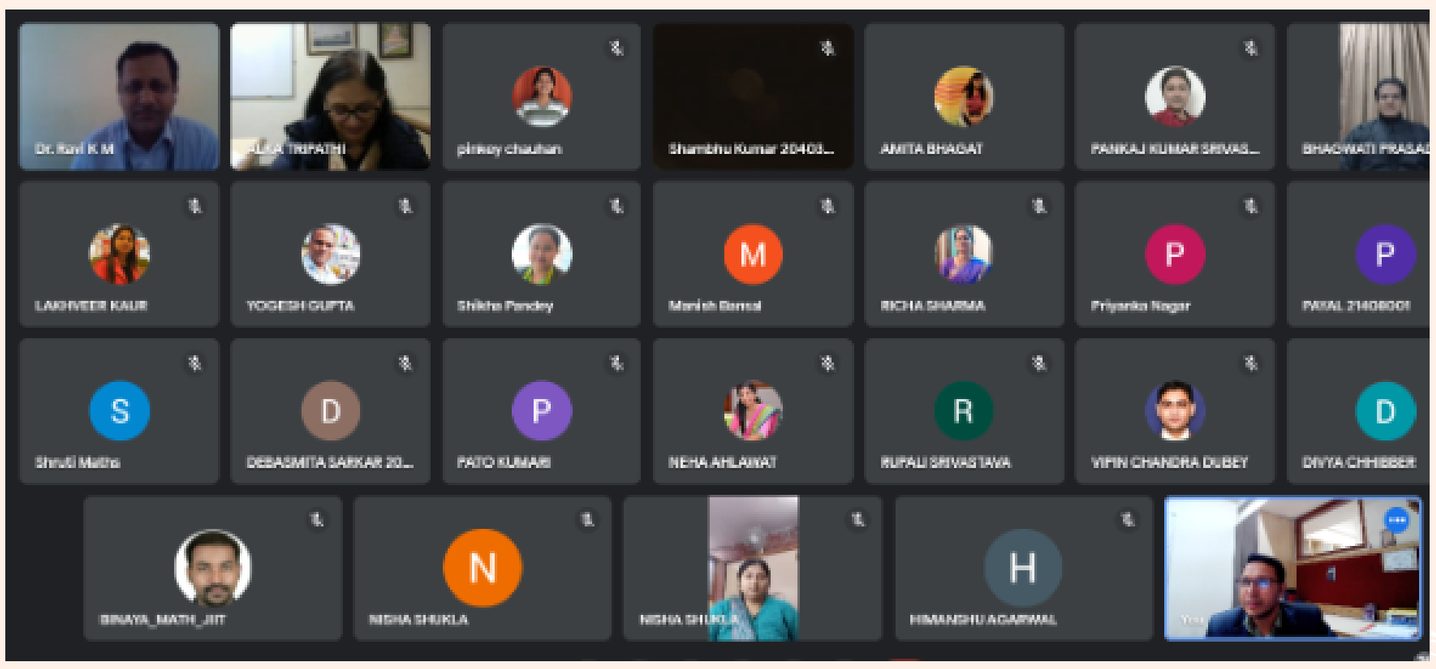
Organized by:

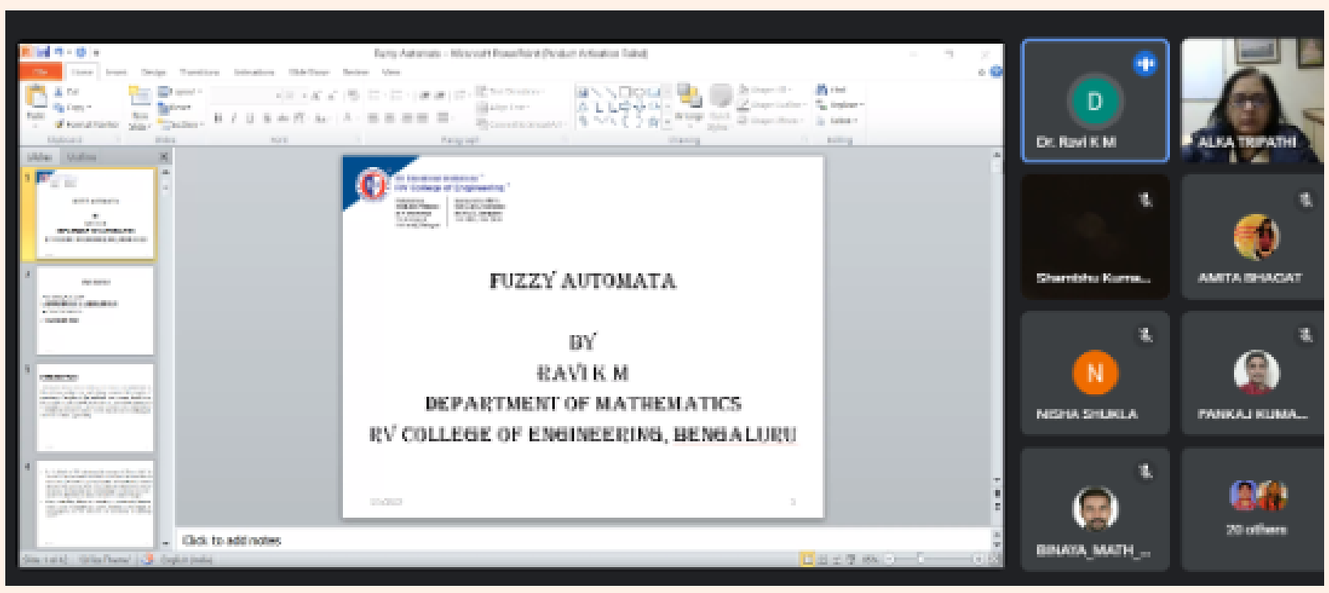
Dr. Richa Sharma

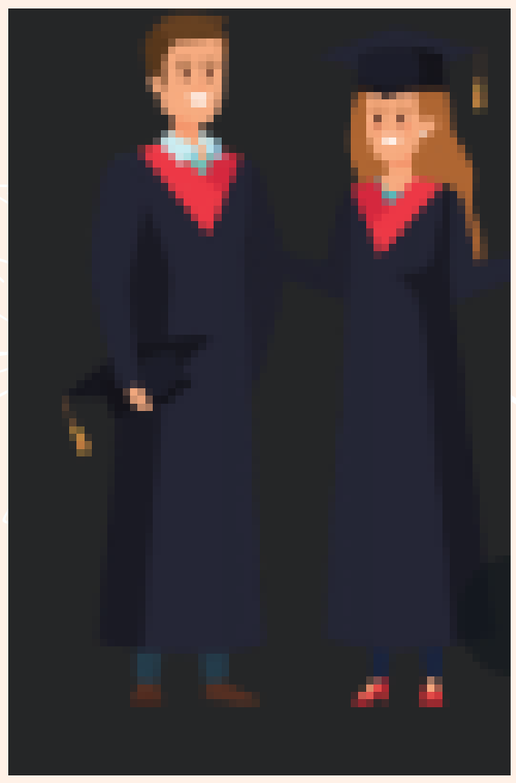
Alumni Talks Conducted

A vibrant alumni community can do wonders for students' career and their Alma Mater. In the series of alumni activities, the Department of Mathematics organised Alumni Talks so as to keep interactions among the Alumni and Department active and lively.

Speaker : Dr. Ravi K. M. (Ph.D 2012)
Title: Introduction to Fuzzy Automata
(Date: January 06, 2023)



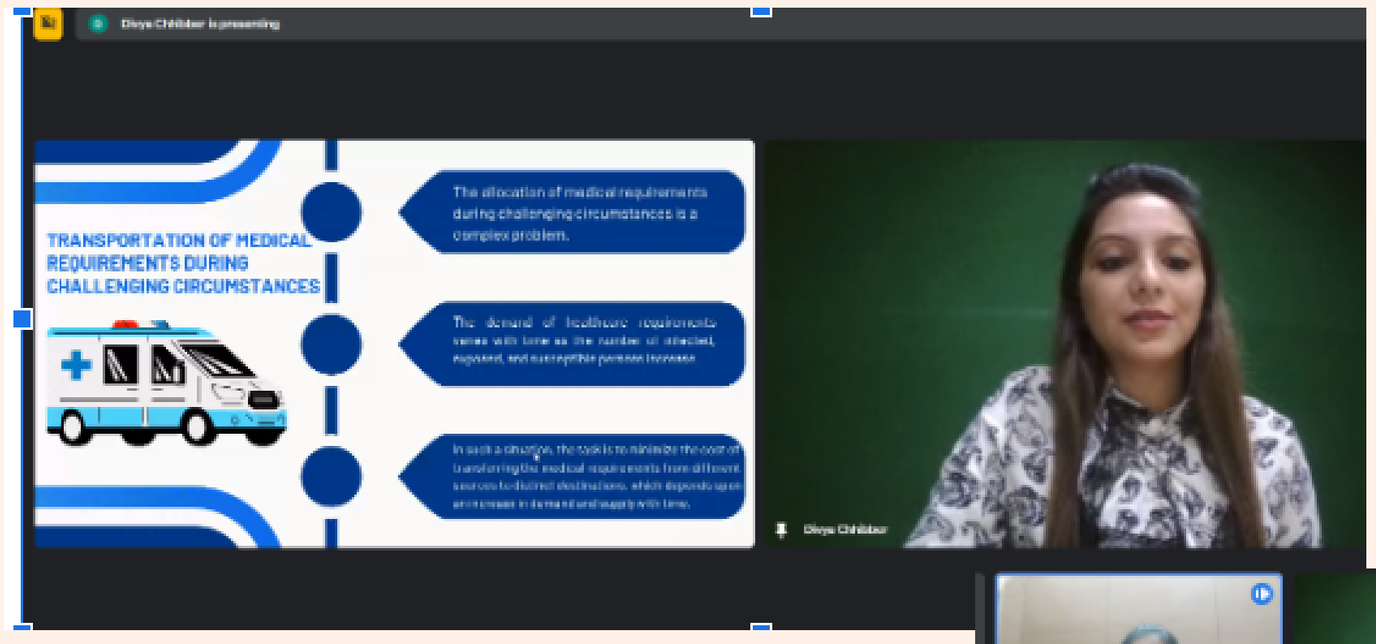


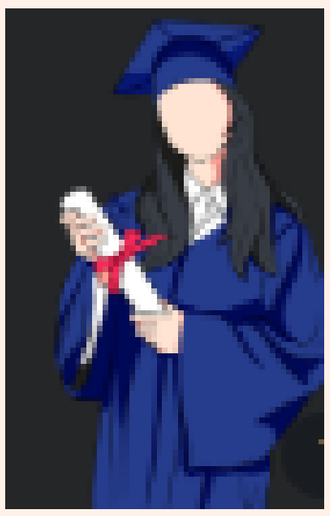


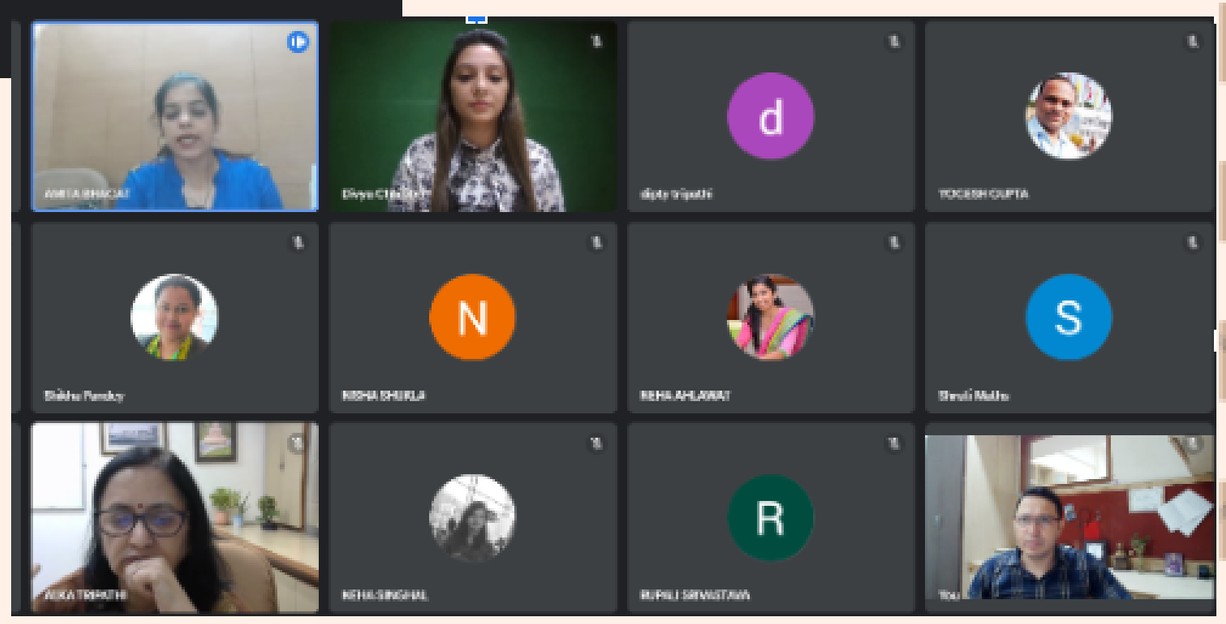
Speaker : Dr. Divya (Ph.D 2022)

Title: Optimization of Transportation Problems in Fuzzy Environment

(Date: May 30, 2023)



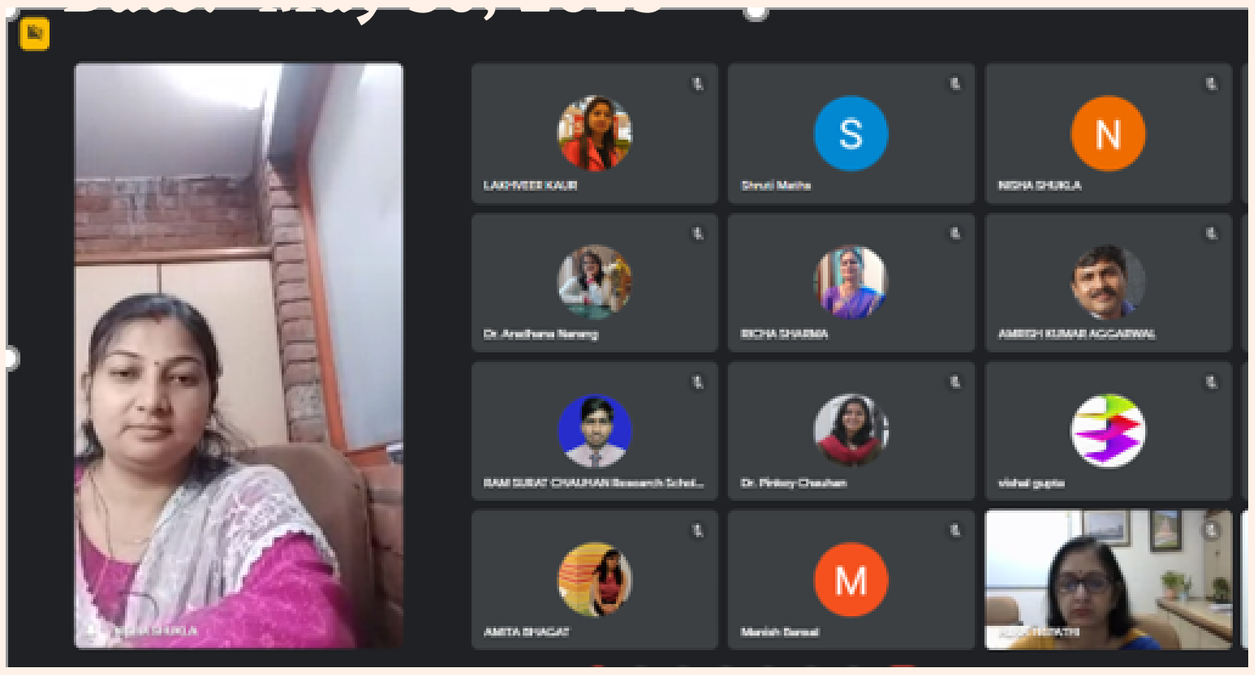




Speaker : Dr. Nisha (Ph.D 2019)

Title: Homotopy Analysis Method for predicting the multiple solutions in Jaffery- Hamel Nano fluid flow with entropy generation analysis

(Date: June 02, 2023)



Organized by:

Dr. Dinesh C. Bisht

&

Dr. Amita Bhagat

Flying Colours: Faculty Achievements

Project Approval by NBHM, Government of India

Dr. Lakhveer Kaur's research project entitled, "Application of Lie Symmetry Analysis, Singularity Structure Analysis and Lagrangian formalism to study the time evolution of Epidemiological Models" is sanctioned by National Board of Higher Mathematics (NBHM), Government of India.

Dr. Lakhveer kaur is also Recipient of Certificate of Appreciation by Jaypee Institute of Information Technology, Noida for Most Cited Article Award by IOP (Institute of Physics) using citations recorded in Web of Science

Department Congratulates Dr. Lakhveer Kaur for her achievements via this Newsletter.

Research Publications

Journal Publications

- **N. Ahlawat, R. Saini, “Vibration and buckling analysis of elastically supported bi-directional FGM Mindlin circular plates having variable thickness”. Journal of Vibration Engineering & Technologies, pp. 1-20, 2023.**
- **M. Sarfaraz, K. S. Nisar, M. K. Ahmad, "Solving nonlinear implicit variational inclusion problems using S-iteration via relaxed resolvent operator", Journal of Interdisciplinary Mathematics, Vol. 26, Issue 1, pp. 17-32, 2023**
- **V. K. Pandey, H. Agarwal and A. K. Aggarwal, "Time and solution error analysis of neural network model of (2+1) dimensional wave equation", Sādhanā 48 (2), pp. 1-14, 2023.**
- **D. Verma, H. Agarwal, and A. K. Aggarwal, “Selection of features and hidden Markov model parameters for English word recognition from Leap Motion air writing trajectories",pp. 1-13, ETRI, 2023.**
- **Iqbal Ahmad, M. Sarfaraz and Syed Shakaib Irfan, Common solutions to some extended system of fuzzy ordered variational inclusions and fixed point problems, AIMS Mathematics, Vol. 8, No. 8, pp. 18088–18110, 2023.**
- **P. Tanwar, A. Srivastava, "Negation and redistribution with a preference — An information theoretic analysis", Chaos, Solitons & Fractals, Vol. 172, pp.113557, 2023.**

- P. Tanwar, A. Srivastava, "Generalization of negation of a probability distribution". International Journal of System Assurance Engineering and Management, Vol. 14 (Suppl 1), pp. 447–454, 2023.
- A. Gupta, M. Sharma and A. Srivastava, "Intelligent Software Bug Prediction Framework with Parameter-Tuned LSTM with Attention Mechanism Using Adaptive Target-Based Pooling Deep Features", International Journal of Reliability, Quality and Safety Engineering, Vol. 30, No. 03, pp. 2350005 (2023).
- G. Arora, P. Chauhan, M.I. Asjad, V. Joshi, H. Emadifar and F. Jarad, Particle swarm optimization for solving sine-gordan equation," Computer Systems Science and Engineering, Vol. 45, No. 3, pp. 2647–2658, 2023.
- L. Bhagat, G. Goyal, D. C. S. Bisht, M. Ram and Y. Kazancoglu. An Improved Hybrid Adaptive Time Variant Fuzzy Time Series Model with Genetic Algorithm for Air Quality Index Prediction. The TQM Journal, Vol. 35, No. 1, pp. 320-333, 2023.
- Priti and A. Tripathi, "Fuzzy Approximation based on τ – R Fuzzy Open (Closed) Sets", Mathematical Foundations of Computing, Vol. 6, No. 3, pp. 558-572, 2023.
- V. Chauhan and P. K. Srivastava, "Numerical approximation of population growth in an autonomous system through a fourth-stage geometric mean-based explicit Runge-Kutta method", International Journal of Computing Science and Mathematics, Vol. 16, No. 3, pp. 241-253, 2023.
- Mahendra Pratap Pal, Lokendra Kumar, “To Investigate the Convective Heat Transfer Coefficient Using Nanofluid in a Right Angled, Triangular Shaped Corrugated Tube for Turbulent Flow”, Tuijin Jishu/Journal of Propulsion Technology, Vol. 44 (3), pp 21-28, 2023.

Conference Publications

- S. Agarwal and H. Agarwal, Ridge Regression for PSNR of Restored Images by Recursive Median Filter, In: Kumar, A., Ghinea, G., Merugu, S., Hashimoto, T. (eds) Proceedings of the International Conference on Cognitive and Intelligent Computing. Cognitive Science and Technology, 2021, Hyderabad, India, vol. 2, 469-481, Springer, Singapore, 2023.
- A. Gupta, M. Sharma and A. Srivastava, "Group Counselling Optimization-derived Software Bug Prediction Framework by Optimal Feature Selection-based Dimensionality Reduction," 2023 13th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2023, pp. 636-642.
- A. Gupta, M. Sharma and A. Srivastava, "A Novel Dimensionality Reduction-based Software Bug Prediction using a Bat-Inspired Algorithm," 2023 13th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, pp. 278-285, 2023.

Book Chapters

- P. Chauhan, S. Barak, Particle Swarm Optimization and Its Applications in the Manufacturing Industry, Design and Applications of Nature Inspired Optimization, pp. 19–38 Springer, Cham., 2023.

- **M. K. Bansal, D., Kumar, J., Choi, “Certain Image Formulae of the Incomplete I-Function Under the Conformable and Pathway Fractional Integral and Derivative Operators”, Advances in Mathematical Modelling, Applied Analysis and Computation, Lecture Notes in Networks and Systems 415, Springer, pp. 141-158, 2023.**
- **N. Jolly, M.K. Bansal, Computable Solution of Fractional Kinetic Equations Associated with Incomplete א-Functions and M-series, Special Functions in Fractional Calculus and Engineering, pp. 95-110, CRC Press, 2023.**
- **A. Naresh, H. Gupta, M. G. Naik, S. Hamsa, M. M. Raju, and D. C. Bisht, Rainfall-runoff modeling using SWAT model. Advances in Mathematical and Computational Modeling of Engineering Systems, pp.183, 2023.**
- **Richa Sharma, "Evaluation of Transitional and Plastic Stresses in Transversely Isotropic Disk Made of Piezoelectric Material Subjected to Internal Pressure", Springer, Singapore, pp. 119-129, May 2023.**

Ph.D's Awarded

Priyanka Nagar (15408001)

Topic: Studies on Diversity and Fuzzy Transportation Models of Species in an Ecological System

Divya Chhibber (17408005)

Topic : Optimal Solutions of Single and Multi-Objective Transportation Problems in Fuzzy and Intuitionistic Fuzzy Environment

Kajol Maheshwari (18408001)

Topic: Elastic-Plastic and Creep Stress Analysis in Anisotropic Materials

Gunjan Goyal (17408004)

Topic:Efficient Fuzzy Time Series Forecasting Methods and Their Applications

Priya Tanwar (18408002)

Topic: A Study of Interplay among Negation Redistribution and Retainment in an Uncertain Environment

Issue 02
Jul-Dec 2023

- **Events Organized by the Department**
- **tour de force: Faculty Accomplishments**
- **Publications by the Faculty Members**

Events Organized by the Department

Invited Talk by Mr. Bhartendu Nandan (DRDO), (September 19, 2023)

Title of the Talk: Finite fields and its Applications in Cryptography

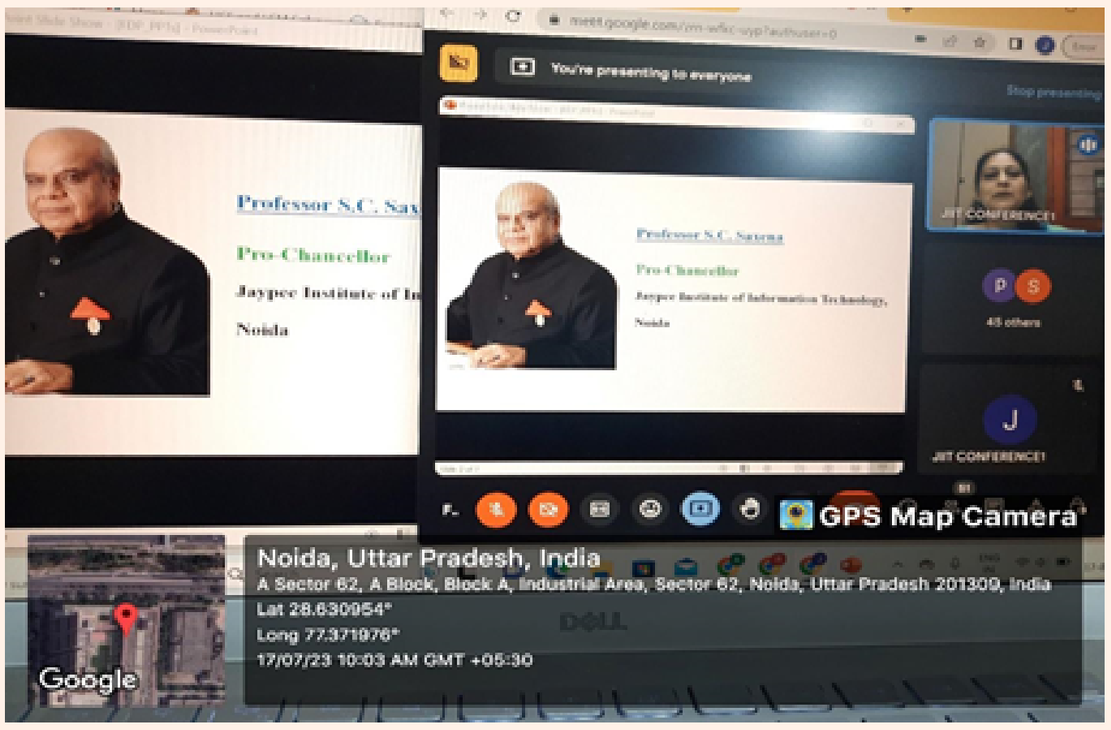
The objective of this session was to provide a comprehensive understanding of the fundamentals of mathematical concepts, particularly those from Algebra and Number Theory, that form the core of the majority of cryptographic algorithms and its critical importance in securing modern communication and data transmission.

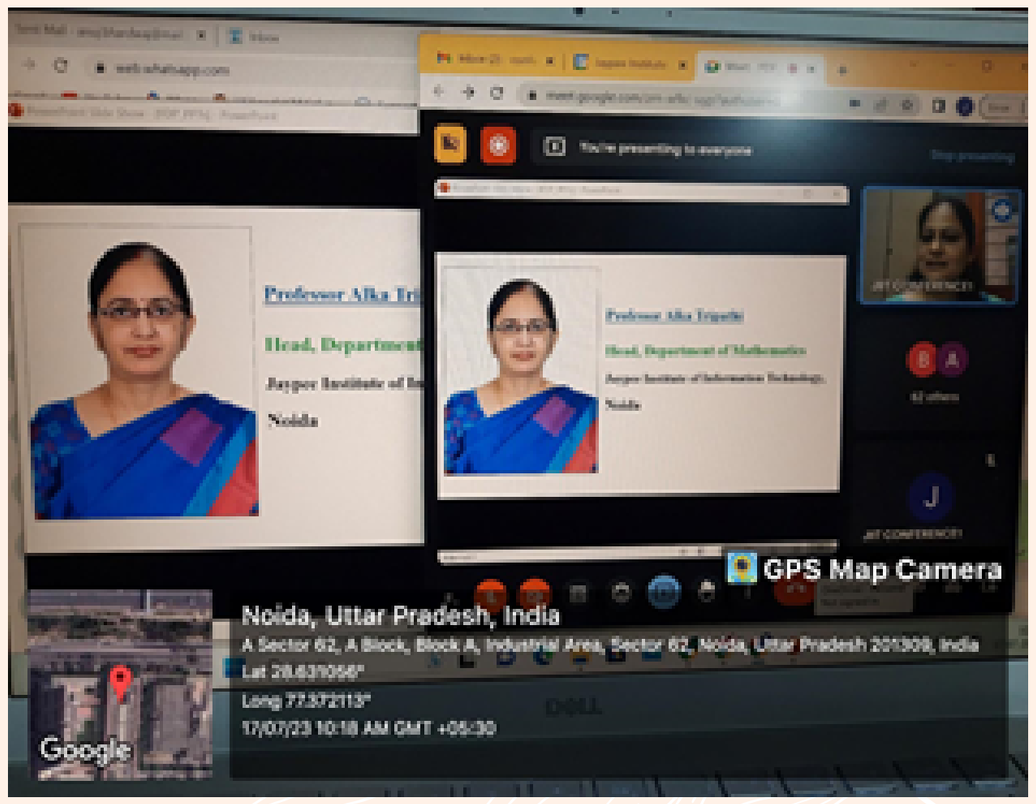
Organized by: Dr. Pato Kumari

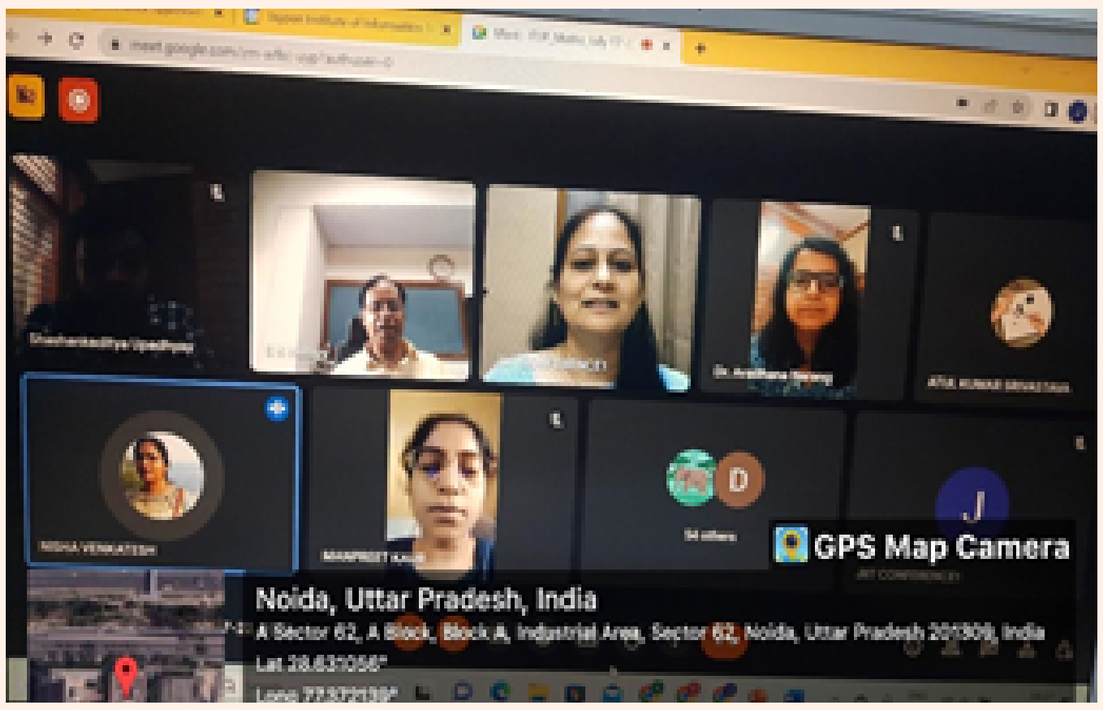
Faculty Development Program on “Statistical and Computational Methods of Decision Making”

July 17, 2023 - July 22, 2023

One-week Faculty Development Program (FDP) was organized by Department of Mathematics from 17/07/2023 to 22/07/2023 on “Statistical and computational methods of decision making”. Various informative and knowledgeable sessions were held by renowned experts demonstrating applications of concerned topics in various fields of research in real life. The objective of this FDP was to explore multidimensional significance of mathematics.







Organized by:

Dr. Anuj Bhardwaj

&

Dr. Richa Sharma

One day workshop on “Exploring Advances in Programming and Computing”

November 04, 2023

This workshop was specifically designed for the M.Sc students of Mathematics department to understand and analyse the Programming and Computing techniques along with its future aspects in research and science.

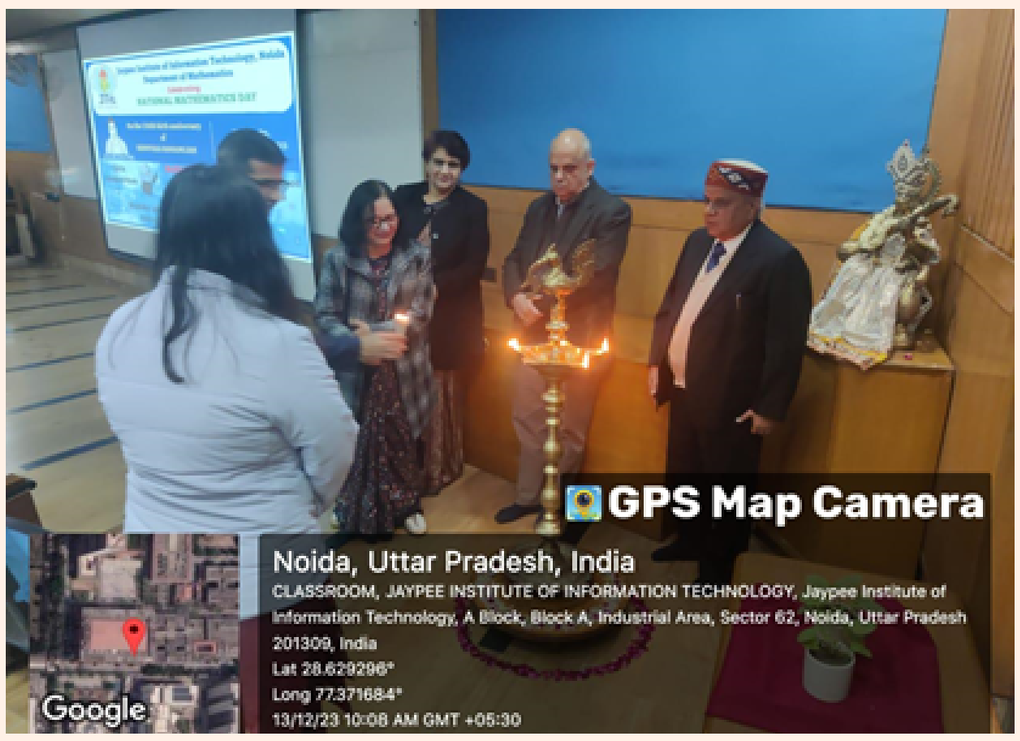
Organized by:

Prof. Amit Srivastava
&
Dr. Lakhveer Kaur

National Mathematics Day

(Celebrated on December 13, 2023)

The Department of Mathematics, Jaypee Institute of Information Technology, Noida (UP), has successfully organized a triumphant celebration of "National Mathematics Day-2023" on December 13th, 2023, marking the birth anniversary of the esteemed mathematician Srinivasa Ramanujan. Ramanujan's mathematical legacy continues to serve as an inspiration across generations. The event commenced with a prayer and the ceremonial lighting of a lamp in honor of Goddess Saraswati. Distinguished guests, including Pro Chancellor Prof. S. C. Saxena and Vice Chancellor Prof. B.R. Mehta from Jaypee Institute of Information Technology, Noida, graced the occasion. Following the inaugural session, an engaging quiz captivated the students, succeeded by two insightful expert talks.



Organized by:

Dr. Pato Kumari
&
Dr. Neha Singhal

tour de force:
Faculty Accomplishments

Recognition as ‘IOP trusted reviewer’ by Institute of Physics

Dr. Lakhveer Kaur achieved status of ‘IOP trusted reviewer’ on September 11, 2023 following the submission of a top-quality review report, as graded by experienced editors. It indicates a high level of peer review competence and the ability to constructively critique scientific literature to an exceptional standard.

Dr. Lakhveer Kaur, Associate Professor, Department of Mathematics, JIIT, Noida is listed in the "World Top 2% Scientists-2023" announced by Elsevier and Stanford University, United States.
Published: 4 October 2023, Version 6.

https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6

Dr. Lakhveer Kaur

Research Publications

Journal Publications

- **S. Goel, S. K. Bhatia, J.P. Tripathi, S. Bugalia, M. Rana and V.P. Bajiya, "SIRC Epidemic Model with Cross-Immunity and Multiple Time Delays", Journal of Mathematical Biology (JoMB), Vol. 87, no. 42, pp-1-52, 2023**
- **S.K. Sharma, S. Goel and S.K. Kaushik, "On Weaving PG-Frames", Palestine Journal of Mathematics, Vol. 12, no. 3, pp-170-179, 2023.**
- **Richa Sharma, Evaluation of Thermal Elastic-Plastic Stresses In Transversely Isotropic Disk Made of Piezoelectric Material with Variable Thickness and Variable Density Subjected to Internal Pressure, Structural Integrity and Life, Vol. 23, No.2 (2023), pp. 205–212.**
- **R. Goel, N. Ahlawat and R. C. Mittal, Efficient B-splines Collocation Simulations of the SARS-CoV-2/Cancer within-host Model with Diffusion and Immunity, European Chemical Bulletin, Vol. 12(10), pp. 9817-9833, 2023.**
- **Mahendra Pratap Pal and Lokendra Kumar, “Numerical Solution of Natural Convection Nanofluid Flow over a Non-Isothermal Vertical Plate”, J. Int. Acad. Phys. Sci., Vol. 27(3) pp. 237-247, 2023.**
- **Aradhana Narang and A. J. Shaiju, "Robustness Against Indirect Invasions in Asymmetric Games with Continuous Strategy Spaces", International Game Theory Review, Vol. 25, No. 4, pp 2350012, 2023.**

- Kamlesh Kumar Shukla, Rama Shanker, Manoj Kumar Tiwariand Faisal Ababneh, Size-biased Poisson-Pranav Distribution and its Applications, International Journal of Agricultural and Statistical Sciences, Vol. 19, No. 2, pp. 863-872, 2023.
- Puneet Rana, Anuj Bhardwaj, Vinita Makkar, Ioan Pop, Gaurav Gupta. Critical points and stability analysis in MHD radiative non-Newtonian nanoliquid transport phenomena with artificial neural network prediction, Mathematical Methods in the Applied Sciences, Vol. 46, no 10, pp. 11726-11746, 2023.
- D. Sharma, D. C. S. Bisht, P. K. Srivatsava, "Intuitionistic fuzzy multi-objective transportation model during pandemic COVID-19",International Journal of Modeling, Simulation & Scientific Computing, Vol 14, Issue 5, p1, 2023.
- V. Chauhan and P. K. Srivastava, " Tetra geometric mean Runge-Kutta analysis of bioeconomic fisheries model", Bulletin of the Transilvania University of Brasov. Series III: Mathematics and Computer Science, Vol. 3(65) No. 2, pp 169-180, 2023.
- R. Kumar, and D. C. S. Bisht, "Picture Fuzzy Entropy: A Novel Measure for Managing Uncertainty in Multi Criteria Decision Making", Decision Analytics Journal Volume 9, 2023, p. 100351.
- Mahendra Pratap Pal and Lokendra Kumar, “Analysis of nonlinear flow and heat transfer issues in nanofluid by using RK-4th order Method”, Journal of Propulsion Technology, Vol. 44(4), pp. 7706-7730, 2023.
- Mahendra Pratap Pal and Lokendra Kumar, “Effect of Power Law Exponent in the Cheng-Minkowycz Natural Convection Nanofluid Flow Along a Vertical Plate Embedded in Porous Media”, J. Int. Acad. Phys. Sci., Vol. 27(4), pp. 305-316, 2023.
- Vishal Gupta, Puneet Rana and Lokendra Kumar, “Impact of Chemical Reaction on the Thermal Stability of Micropolar Nanofluid with Rough Boundaries and Passive Control on Nanoparticles: Neural Networking”, Journal of Central South University, Springer, Vol. 30, pp 1581–1600, 2023.

- P. Kumari and R. Srivastava, Coupled impact of irregularity and magnetoelasticity on crack propagation in orthotropic strip, The European Physical Journal Plus, 138 (8), 1-16, 2023.
- P. Kumari and Payal, Response of SH waves in inhomogeneous functionally graded orthotropic layered structure with interfacial imperfections, Journal of Engineering Mathematics, 142 (6), 2023.
- P. Kumari and Payal, "Characterization of Torsional Wave in a Bonded Corrugated Dry Sandy Geomedia, Mechanics of Solids, 58 (3), 961-974, 2023.
- Mittal, R.C., Goel, R. and Ahlawat, N. Numerical Simulation of Computer Virus Reaction-Diffusion Model using Cubic B-splines Collocation, Discontinuity, Nonlinearity, and Complexity, Vol. 12(3), pp. 673684, 2023.
- Aditya Pratap Singh and Amita Bhagat, Performance Analysis of N-Policy Finite Queue with 2-Stage Services and Controlled Repairs, J. Int. Acad. Phys. Sci.,Vol. 27, No. 4 , pp. 325-337, 2023.
- P. Madan, A. Tripathi, "Rough Set Model based on Union Neighborhood", Journal of International Academy of Physical Sciences, Vol. 27 No. 3, pp 207-223, 2023.
- Rama Shanker, Kamlesh Kumar Shukla, "A Generalization of Generalized Poisson-Lindley Distribution and its Applications", Journal of Modern Applied Statistical Methods, Vol. 22 No.2,1-19, 2023.
- S. Pandey, R. S. Rajawat, V.N. Mishra, Approximation properties of modified Jain-Gamma operators preserving linear function, Palestine Journal of Mathematics, Vol. 12 (2) 2023, pp. 169-182.

Conference Publications

- S. Kumar, A. Jain, and D. Bisht. "Hybrid Approach for Link Prediction using Supervised Machine Learning in Social Networks: Combining Global and Local Features." In Proceedings of the 2023 Fifteenth International Conference on Contemporary Computing, pp. 591-597. 2023.

More on the Mathematical Clouds

- **Upcoming Event: RAMSA 2024**
- **New Assets to the Department**
- **From the desk of Alumni**
- **Round the clock for Year 2023**
- **Gratitude**

Upcoming Event: RAMSA 2024

The Department of Mathematics, Jaypee Institute of Information Technology, Noida, India is organizing the 7th International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2024) February 29-March 2, 2024 in hybrid mode. (https://ramsa2024.in/)

Department of Mathematics
Jaypee Institute of Information Technology, Noida, INDIA
(Declared Deemed to be University u/s Sec3 of UGC Act 1956)
is organising
7th International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA - 2024)
February 29 - March 02, 2024 (Hybrid Mode)

Inviting Global Researchers, Mathematicians, and Scholars to Explore the Frontiers of Mathematical Sciences!

KEY DATES

- Abstract Submission Deadline: Jan 27, '24
- Fee Payment & Author Registration: Jan 29, '24
- Full-Length Paper Submission: Feb 15, '24

CONFIRMED SPEAKERS

- Prof. Enrique Zuazua, University of Erlangen-Nuremberg (FAU), Germany
- Prof. T. Som, Indian Institute of Technology (BHU) Varanasi, India
- Prof. Debasis Kundu, Indian Institute of Technology Kanpur, India
- Prof. S. K. Tomar, J. C. Bose University of Science & Technology, Faridabad, India
- Prof. Sandip Banerjee, Indian Institute of Technology Roorkee, India
- Prof. Shruti Dubey, Indian Institute of Technology Madras, India
- Prof. Sudipa Chauhan, Institute of Health Economics, Canada

HOW TO PARTICIPATE

1. Prepare your abstract using our template.
2. Submit your abstract at the submission link.
3. Await acceptance details and further steps.

REGISTRATION CHARGES

Category	Mode	Registration Charges (RAMSA-2024)	
		Abroad	India
Academicians/Scientists	Offline	$250	₹ 5,000/-
	Online	$150	₹ 3000/-
Students / Research Scholars	Offline	$150	₹ 3000/-
	Online	$75	₹ 1500/-
JIIT Students /JIIT Alumni	Offline	$100	₹ 2000/-
	Online	$75	₹ 1500/-
Attendee	Offline	$100	₹ 2000/-
	Online	$50	₹ 1000/-
Extra Per Article Submission	Offline/ Online	$50	₹ 1000/-

PAYMENT DETAILS

Indian Participant:

Participants from Outside India:

1.	Correspondent Bank Name, Address and Swift Code of the Correspondent Bank (Field 56A of Swift)	CITI BANK NEW YORK, USA, SWIFT CODE: CITIUS33XXX
2.	Swift Code & Account No. of IDBI Bank with Correspondence Bank (Field 57A of Swift	SWIFT CODE: IBKLINBBA83 Pacific Business Park, 1st Floor, Plot No. 37/1, Dr. Barman Marg, Sahibabad (U.P), Ghaziabad – 201 010
3.	Beneficiary Details (Field 59 of Swift)	Jaypee Institute of Information Technology, Account No.: 0200104000123550 (IDBI Bank Ltd, Sector-63, Noida, U.P., India)
4.	Purpose (Field 70 of Swift)	Educational Fees (Mention Student's name, Father's name and Remitter's name)

REGISTERATION PROCESS

- Upon abstract acceptance, the corresponding author will receive an acceptance email from the conveners.
- After receiving acceptance of abstract, the author needs to pay the fee as per category.
- After successfully making the payment, authors must complete the mandatory online registration.

CONFERENCE CHAIR
Prof. Alka Tripathi,

CONVENER (S)
Dr. Pankaj K. Srivastava and Dr. Dinesh C. S. Bisht

FOR MORE DETAILS

Visit conference Website: https://ramsa2024.in
ramsa.conference2024@gmail.com

CONFERENCE CHAIR

Prof. Alka Tripathi, Head, Department of Mathematics

CONVENERS

Dr. Pankaj K. Srivastava & Dr. Dinesh C. S. Bisht

New Assets to the Department

Dr. Kamlesh Kumar Shukla
Assistant Professor (Senior Grade)

Dr. Kamlesh Kumar Shukla is currently working as Assistant Professor (Sr. Grade) at Department of Mathematics, Jaypee Institute of Information Technology, Noida since July,2023. He has been awarded Ph.D. in Statistics from Banaras Hindu University, Varanasi, India, and Master's degree in Statistics (Gold Medalist) in 1997.

Dr. Shashank Goel
Assistant Professor (Grade-II)

Dr. Shashank Goel obtained his M.Sc. in Mathematics from University of Delhi, Delhi in 2006 and Ph. D. from Maharshi Dayanand University, Rohtak in 2013. His research interests include Functional Analysis, Theory of Frames in Banach Spaces and Epidemiology.

Dr. Mukesh Kumar Nagar
Assistant Professor (Grade-II)

Dr. Mukesh Kumar Nagar earned his Ph.D from prestigious Institute IIT Bombay. He is keen to be a part of JIIT as a faculty for Mathematics. His area of research are Combinatorics, Representation Theory and Graph Theory. He had also been a Post Doctoral fellow at IIT Kanpur and NISER for more than two years.

Dr. Ayushi Sengar
Assistant Professor (Grade-II)

Dr. Ayushi Sengar has joined Department of Mathematics, JIIT Noida as an assistant professor. She has earned her M.Tech+PhD (dual degree) from IIT Madras and M.Sc from IIT Madras. She has also worked as Post-doctoral researcher in “Computational Mathematics & Data Science Lab” in Department of Mathematics, IIT Madras. Her areas of interest are Time-changed Stochastic processes, Stochastic Calculus, Probability Theory, Ruin Theory.

Dr. Gaurav Aggarwal
Assistant Professor (Grade-II)

Dr. Gaurav Aggarwal is an assistant professor in the Department of Mathematics at JIIT Noida. He has teaching experience spanning 1.5 years and has taught at the graduate and undergraduate levels. He qualified UGC NET JRF, and GATE. He obtained his masters from IIT Delhi in 2014 and his doctorate in 2022 from the Department of Mathematics at JMI New Delhi.

Dr. Shashankaditya Upadhaya
Assistant Professor (Grade-II)

Dr. Upadhya has completed his integrated dual degree: BS-MS, from IISER Kolkata, majoring in mathematical sciences in 2012. Thereafter, he gained experience working on few projects at ISI-Calcutta and IISER Kolkata and then joined Shiv Nadar University, Delhi-NCR for a Ph.D program in 2014. Post completion of his PhD, he has also worked as a postdoc fellow at IIT Delhi and IISER Kolkata.

Department feels elated to welcome you all to the family of JIIT.

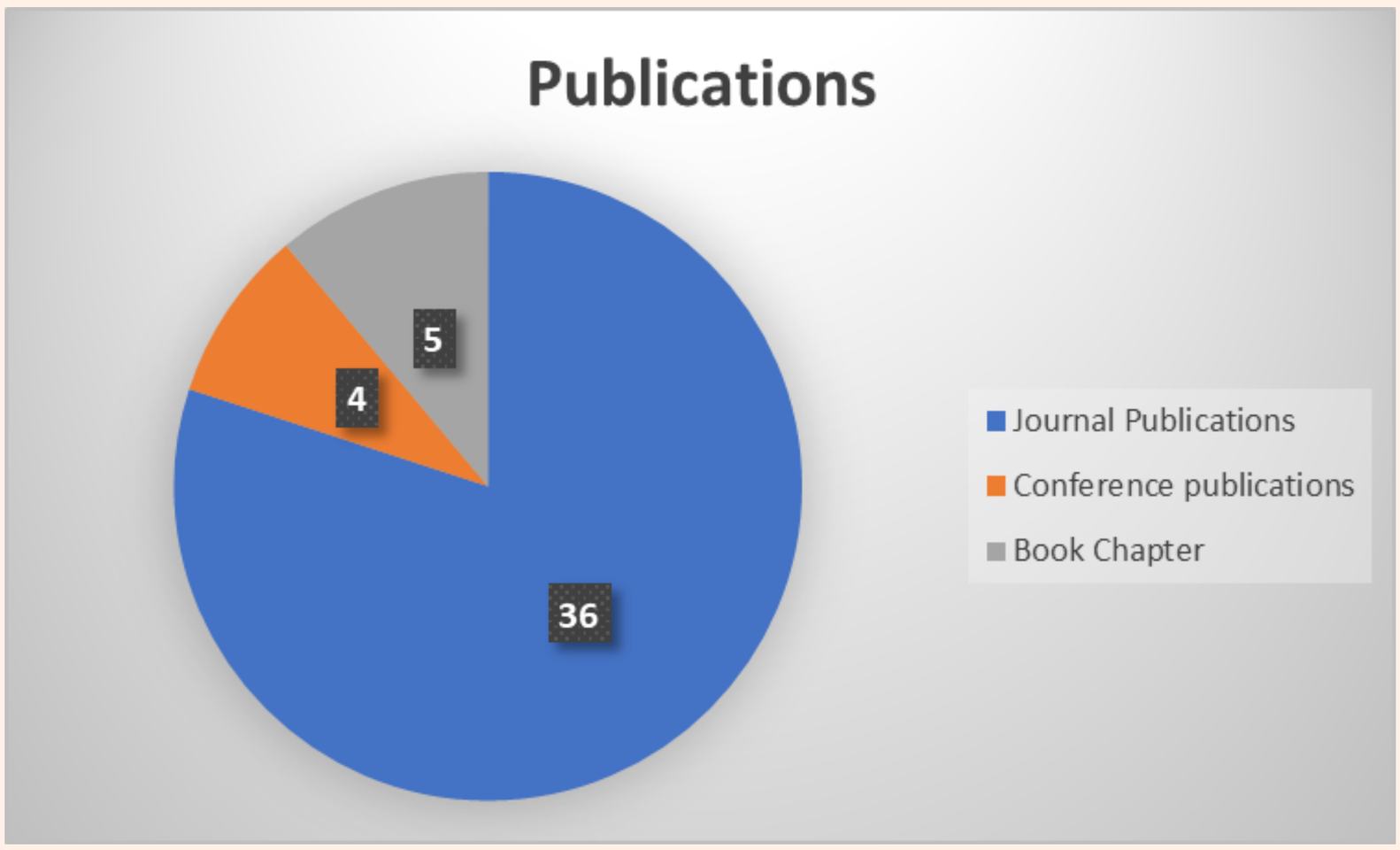
From the Desk of Alumni

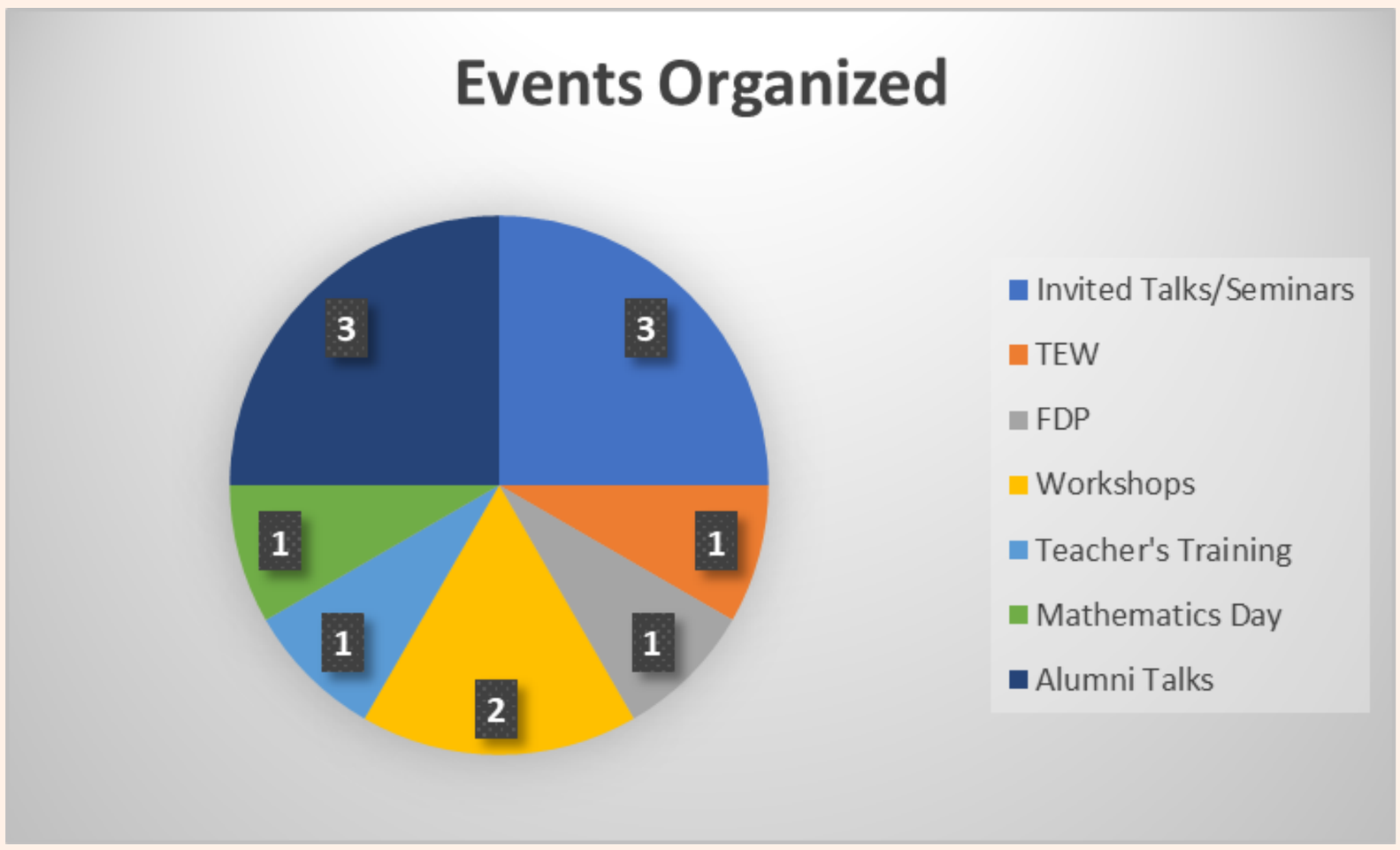
Dr. Richa Sharma

It's been several years since I walked across the stage to receive my Ph.D degree, yet the impact of those years lingers with me every day. As I reflect on my time at JIIT, Noida as a research scholar, I am filled with pride not just for my own accomplishments but also for being a part of a community that values knowledge, innovation, and excellence. During my Ph.D, I made a lot of friends and learnt a lot that has greatly impacted both my personal and professional lives. Today, as a faculty at JIIT, Noida, I draw upon the skills, insights, and values instilled in me during my Ph.D. I am forever grateful for the education I received and the experiences I had here, and I carry them with me as a testament to the transformative power of higher education. I would like to conclude by wishing Jaypee Institute of Information Technology all the success it deserves in inspiring and educating the next round of academics, leaders, and changemakers.

Warm Regards
Dr Richa Sharma

Round the Clock for Year 2023





GRATITUDE

The Editorial Team feels grateful to all the authorities, Head of the department, Faculty members, students and research scholars for their direct and indirect contribution to this issue of Departmental newsletter SANKHYA.

We are indebted to all the faculty members whose hard work in the form of research publications, achievements, Ph.D's completion and organisation of various academic and motivating events add new feathers to the Department and motivate each and every one of us to do better in the direction of research, teaching and other activities.

This newsletter SANKHYA would have all the pages BLANK if we all have not worked together and harder in contributing to the overall success of the Department. This issue is just a showcase of achievements of all of us and everyone of us.

" Alone we can do so little, together we can do so much."

Thankful and Grateful
Editorial Team

"No one who achieves success does so without acknowledging the help of others. The wise and confident acknowledge this help with gratitude."

Alfred North Whitehead.

Scan for the feedback form

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DEPARTMENT OF MATHEMATICS
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA
(DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF UGC ACT 1956)