FACULTY PROFILE



Name: Dr. Tanuj Kumar

Designation: Assistant Professor

E_Mail: tanujkuo@srmist.edu.in

Professional Qualification:

- Ph.D in Mathematics from Jaypee University of Information Technology, Waknaghat, 2015.
- M.Tech. from Jaypee Institute of Information Technology, Noida, Uttar Pradesh, 2011.
- > B. Ed. from C.C.S. University, Meerut, Uttar Pradesh, 2007.
- M.Sc. from C.C.S. University, Meerut, Uttar Pradesh, 2006.
- B.Sc. from C.C.S. University, Meerut, Uttar Pradesh, 2004.

Publications (Journals & Conferences):

- Kumar T., Bajaj R.K. "On some characterization results of R[~]-norm dynamic survival entropies," Communications in Statistics-Theory and Methods,1-17, 2021. [Taylor & Francis; SNIP 1.01; SCI Index]
- Kumar T., Verma V. K. and Tyagi S. "On (R, S)-Norm Entropy of Intuitionistic Fuzzy Sets," Artificial Intelligence and Evolutionary Computations in Engineering Systems, 785–796, 2020. [Springer Book Series (AISC, volume 1056)]
- Kumar T., Bajaj R.K. and Ansari M.D. "On Accuracy Function and Distance Measures of Interval-valued Pythagorean Fuzzy Sets with Application in Decision Making," *Scientia Iranica*, 2019. [Scientia Iranica, Current IF: 0.83; Scopus, ISI-SCI Index].

- Kumar T., Bajaj R.K. "Credibility Distribution based R-Norm Fuzzy Information Measures in Noiseless Coding Theorems," *International Journal of General Systems*, 48 (3), 302–320, 2019. [Taylor & Francis, Current IF: 2.931; Scopus, ISI-SCI Index].
- Kumar T. and Bajaj R.K. "NTV Metric based metric based Entropies of Interval Valued Intuitionistic Fuzzy Sets and their applications in Decision Making," Annals of Fuzzy Mathematics and Informatics, 9(1), pp. 1–21, January 2015. [MathSciNet, IF: 1.1147].
- Kumar T. and Bajaj R.K. "On Complex Intuitionistic Fuzzy Soft Sets with Distance Measures and Entropies," *Journal of Mathematics*, Vol 2014, pp. 1–12, 2014. [Hindawi, MathSci Net].
- Kumar T., Bajaj R.K. and Gupta N. "Fuzzy Information Measure in Weighted Fuzzy Linear Regression Model under Linear Restrictions with Simulation Study," International Journal of General Systems, 43(2), pp. 135–148, 2014. [Taylor & Francis, IF: 1.667; Scopus, ISI-SCI Index]
- Kumar T., Bajaj R.K. and Gupta N. "On Some Parametric Generalized Measures of Fuzzy Information, Directed Divergence and Information Improvement," *International Journal* of Computer Applications, 30(1), pp. 5–10, 2011.
- Singh S. and Kumar T., "Intuitionistic fuzzy inventory model with quadratic demand rate, timedependent holding cost and shortages," Journal of Physics," vol. 2223, pages. 012003, 2021.
- Chaudhary P. and Kumar T., "An intuitionistic fuzzy inventory model with waste disposal using the triangular intuitionistic fuzzy numbers," Journal of Physics," vol. 2223, pages 012004 2021.
- Organized committee member of 21st Annual conference of Vijnana Parishad of India on "Modeling, Optimization and Computing for Technological and Sustainable Development (MOCTSD-2019) organized by *Department of Mathematics, SRMIST, Delhi NCR, Campus, Ghaziabad*, April 26-28, 2019.
- Kumar T. and Bajaj R.K. "Expected Value Based Ranking of Intuitionistic Fuzzy Variables," The American Institute of Physics Conference Proceedings, 1860, 020030, pp. 1-11, 2017.
- Arora S. and Kumar T. "ST Intuitionistic Fuzzy Metric Space with Applications to Fixed Point Theorems," The American Institute of Physics Conference Proceedings, 1860, 020030, pp. 1–6, 2017.
- Kaushik R., Bajaj R.K. and Kumar T. "On Intuitionistic Fuzzy Divergence Measure with Application to Edge Detection," Science Direct (Procedia Computer Science): 4th International Conference on Eco-friendly Computing and Communication Systems (ICECCS), 70, pp. 2–8, 2015. [Scopus].
- Kumar T. and Bajaj R.K. "Reliability Analysis of the k-out-of-n : G-System Using Triangular Intuitionistic Fuzzy Numbers," International Journal of Mathematical, Computational Science & Engineering, 8(2), pp. 64–70, 2014.
- Bajaj R.K., Kumar T. and Gupta N. "R-norm Intuitionistic Fuzzy Information Measures and its Computational Applications," *Springer: Communications in Computer and Information Science*, 305(8), pp. 372–380, 2012. [Springer, ISI Index, DBLP, Scopus].
- Kumar T., Bajaj R.K. and Gupta N. "Reliability Evaluation of Series and Parallel Systems using Trapezoidal Intuitionistic Fuzzy Sets," IEEE {2nd International conference on Advances in Computing and Communications (ICACC), pp. 219–222, 2012. [Scopus]
- Bajaj R.K., Kumar T. and Gupta N. "NTV Metric based New Similarity Measure for Intuitionistic Fuzzy Sets with its Computational Application in Medical Diagnosis," IEEE

{2nd International conference on Advances in Computing and Communications (ICACC), pp. 1–4, 2012. [Scopus]

Kumar T., Bajaj R.K. and Gupta N."Fuzzy Entropy on Restricted Fuzzy Linear Regression Model with Cross Validation and Applications," IEEE {2nd International conference on Advances in Computing and Communications (ICACC), pp. 5–8, 2012 [Scopus].

Awards and Achievements

- Received Research Fellowship during Ph.D
- Received Teaching Assistantship during M.Tech
- > Qualified Graduate Aptitude Test in Engineering *(GATE)* in 2009.

Workshops/Seminars/FDPs

- Participated in the FDP on "IOT and Wearable Devices for Smart City Infrastructure" organized by the SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, (U.P.), during June 20–25, 2022.
- Participated & Completed successfully AICTE Training and Learning (ATAL) Academey online Elementary FDP on "Novel Materials" organized by the SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, (U.P.), during August 23–27, 2021.
- Participated and successfully completed the 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 9 August, 2021 to 13 August, 2021.
- Participated in the webinar titled Faculty Development Programme on "Mathematics and Its Applications in Science and Technology", organized by Department of Mathematics, School of Basic Sciences, College of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, from July 06- 16, 2020.
- Participated in the International Faculty Development Programme on "Prominence of Mathematics in Diverse Sectors", organized by Science and Humanities of Hindustan College of Engineering and Technology from 15.07.2020 to 20.07.2020
- Successfully completed "NPTEL" online certification courses: --Calculus of one variable (8 weeks), Elite+Silver, Jul-Sep 2019.
- Successfully completed "NPTEL" online certification courses: ----Probability and Statistics (FDP approved by AICTE), 12 weeks, Elite +Silver, Jan-Apr, 2019
- Participated in the FDP on "Cyber Security and Big Data Analytics" organized by the SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, (U.P.), during May 14–19, 2018.
- Successfully completed "NPTEL" online certification courses: ---Introduction to Abstract and Linear Algebra (FDP approved by AICTE), 8 weeks, *Elite*, Aug-Oct, 2018.
- Successfully completed "NPTEL" online certification courses: ----Introduction to Ordinary and Partial Differential Equations and Applications (FDP approved by AICTE), 12 weeks, Elite, Jul-Oct, 2018.

- Participated in "Application of Technical Terminology in Modeling Optimization and Computing in Science and Technology" organized by Commission for Scientific and Technical Terminology (Department of Higher Education, MHRD), April 26—28, 2019
- Participated in the FDP on "ERUDITIA 2018" organized by the SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, (U.P.), during June 12–23, 2018.
- Participated in the "Second International Conference on Eco-friendly Computing and Communication Systems (ICECCS)," held in the Department of Mathematics, Jaypee University of Information Technology, Waknaghat (H.P.), during Oct.17–19, 2013.
- Presented a paper titled "Fuzzy Complex Numbers" in the International conference on Mathematical Modelling and Computational Techniques, held in Punjab University, Chandigarh, India, during Sept. 27–28, 2013.
- Presented a research paper titled "Fuzzy Information Measure in Weighted Linear Regression Model under Exact Linear Restrictions in National Conference on Advances and Applications in Statistics, held in Punjab University, Chandigarh, India during Feb. 20– 21, 2012.
- Participated in the FDP by National Board of Higher Mathematics Instructional School on "Lectures in Differential Equations and Computations" organized by the Department of Mathematics, Jaypee University of Information Technology, Waknaghat (H.P.) during June 04–16, 2012.
- Short term course on "Numerical Methods in Science and Engineering" organized by Department of Mathematics, Motilal Nehru National Institute of Technology held during 25–26 August, 2012.
- Attended a Workshop on "Data Mining and Parallel computing" jointly organized by Jaypee University of Information Technology, Waknaghat & University of Florida held during 2–5 August, 2011.
- Workshop on "Wavelets and its Applications in Signal Processing" organized by Jaypee Institute of Information Technology, Noida held on 20th April, 2011.
- Attended a Workshop on "Advanced Computing and Software Tools" organized by Jaypee Institute of Information Technology, Noida held on 30 October, 2010.
- Short term course on "Statistical Modelling of Systems" organized by Indian Institute of Technology Kharagpur held during June 28-July 04, 2010.

Work Experience:

- > Assistant Professor, SRM IST, Delhi NCR Campus, Ghaziabad from 2017 to till date.
- > Assistant Professor, Lovely Professional University, Phagwara from 2015 to 2017.
- > Assistant Professor, Invertis University, Bareilly from 2014 to 2015.

Professional Memberships:

- Member of International Association of Engineers (IAENG)-125733
- Member of The Indian Society for Technical Education (ISTE)-LM 137324
- Member of Soft Computing Research Society (SCRS)- 2023-06-04-1013