

## FACULTY PROFILE



**Name:** Dr. Sohan Tyagi  
**Designation:** Assistant Professor  
**E-Mail:** sohanlat@srmist.edu.in

### Professional Qualification:

Ph.D. (Maths) Awarded from CCS University, Meerut, UP, INDIA in 2010.  
M Phil (Maths) Passed from CCS University, Meerut, UP, INDIA in 2005.  
M Sc (Maths) Passed from CCS University, Meerut, UP, INDIA in 2002.  
B Sc (PCM) Passed from CCS University, Meerut, UP, INDIA in 2000.

### Publications (Journals & Conferences):

- **“Optimization Model for Waste Water Treatment Plant”** in IEEE Xplore, 2023
- **“A framework for application of fuzzy in artificial intelligence”**, International Journal of Education and Science Research Review, vol 10, Issue-3, 2023
- **“Performance Modeling and Availability Analysis of Screw Manufacturing Plant”** Materials Today: Proceedings, Elsevier, 2022
- **“Mathematical Modeling and Availability Analysis of Leaf Spring Manufacturing Plant”** Pertanika Journal of Science & Technology (JST), 26 (4): 1789 - 1800, 2021
- **“Algorithm For Frequency Division Multiple And Time Division Multiple Access Schemes”** European Journal of Molecular & Clinical Medicine, 08(01), 2021

- **“FIFO & LIFO in Green Supply Chain Inventory Model of Hazardous Substance Components Industry with Storage Using Simulated Annealing”** Advances in Mathematics: Scientific Journal, vol 9 no.7, 5127–5132, 2020
- **“Analysis of the Arrival Geo/G/1 Queue with Geometric Distributed Multiple”** in International Journal of Innovative Technology & Exploring Engineering (IJITEE), 9(6), 2028-2031, April 2020
- **“On  $(R, S)$ -Norm Entropy of Intuitionistic Fuzzy Sets”** in Artificial Intelligence and Evolutionary Computations in Engineering Systems, Springer, 785-796, 2020
- **“Reliability Analysis of Screw Manufacturing Plant Using Orthogonal Matrix Method”** in Pertanika Journal of Science & Technology (JST), 26 (4): 1789 - 1800, 2018
- **“Optimal Fuzzy Approach: Transportation Modelling”** in International Journal of Mathematics & its Application (IJMAA), 6(1-D), 699-705, 2018
- **Fuzzy Compromise Solution For Transportation & Traffic Problems** in Acta Ciencia Indica, Vol. XXXV M, No. 2, 629 (2009) ISSN 0970-0455.
- **Optimal Solution Of Multiobjective Transportation Problem With Fuzzy Demand & Fuzzy Product Based On Level  $(\lambda, 1)$  As Fuzzy Numbers** In International Journal of Essential Sciences Vol. 3, No.1, (2009) ISSN 0973-8436.
- **Solution Of Fuzzy Transportation Problems Through Optimization Techniques** in Acta Ciencia Indica, Vol. XXXV M, No. 2, 617 (2009) ISSN 0970-0455.
- **Optimal Fuzzy Approach: Transportation Modeling** in Proceedings of National Seminar On Recent Trends in Advancement Of Mathematical & Physical Sciences, Nov 2006.

#### **Awards and Achievements**

- Certification Programme from NPTEL in Engineering Mathematics I in the year 2019.
- Certification Programme from NPTEL in Ordinary and Partial differential equations and applications in the year 2018

## Workshops/Seminars/FDPs

- Participated in the AICTE Recognized Faculty Development Programme **on Developing Healthy Work Culture** Conducted by Curriculum Development Centre Department Sponsored by MHRD at SRM Institute of Science and Technology, Ghaziabad , U.P. from 13-17 March 2023
- Attended a Two-day workshop on ‘**Latex**’, organized by Operational Research Society of India, Meerut Chapter and Vardhaman College, Bijnor, on 25-26 February 23
- Attended a FDP on the theme “**Role of Optimization in Machine Learning**” organized by Department of Mathematics, School of Basic Sciences, SRM Institute of Science and Technology, Kattankulathur, 20-24 February 2023
- Attended a FDP on the theme “**Role of Optimization in Computational Mathematics, Supply Chain Management & Engineering**” organized by the department of mathematics, SRMIST, Delhi-NCR campus modinagar, 23 May 2022 to 28 May 2022
- Participated and Completed 5-day FDP on the theme “**Advanced Security Analytics and Machine Learning**” by the Department of Computer Science and Engineering from 18 April, 2022 to 23 April, 2022 at SRM Institute of Science and Technology, NCR Campus, Modinagar, Ghaziabad, Uttar Pradesh (India)
- Participated in the international workshop on “**Numerical and Analytical Techniques in Engineering Problems (IWNATEP-2022)**” organized by the Department of Mathematics held on January 19 - 21, 2022 at SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India
- Participated and Completed a 5-day 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
- Attended a Webinar titled “**Faculty Development Programme on Mathematics And Its applications in Science And Technology**” organized by the department of mathematics, SRMIST, Kattankulathur, 6-16 July 2020
- Attended a National Webinar on “**Application of mathematics and contemporary Use of Its scientific and technical terminology**” organized by JNU, Sponsored by MHRD, New-Delhi 16-16 June 2020
- Attended a National Web Symposium on “**Usefulness of Vedic Mathematics at present**” organized by Ismail National women(P.G) College, Meerut, 8 July 2020

- Attended an FDP entitled “**Impact of Moral Values, Ethics & Behavioral Sciences On Attitudinal Development of The Professionals**” Sponsored by AICTE, in Dewan Institute of Management Studies, Meerut, Uttar Pradesh (India),17-30 January 2020
- Worked as a Member of the Organizing Committee in the “**21<sup>th</sup> annual conference on Modeling, Optimization, and Computing for Technological and sustainable development**” organized by the department of mathematics, SRMIST, DELHI-NCR campus modinagar, 26-28 April 2019
- Attended a National Conference on “**Applications of Technical Terminology in Modeling, Optimization and Computing in Science and Technology**”, Sponsored by MHRD, in SRMIST Delhi-NCR campus, Modinagar, 26-28 April 2019
- Attended a Multi-Disciplinary FDP entitled “**ERUDITIA**” in SRMIST, NCR Campus, Modinagar, Ghaziabad, Uttar Pradesh (India),12-23 June 2018
- Participated in the one-day workshop on ‘VEDIC MATHS’, held in SRM University, Modinagar on 27 January 2017
- Participated in FDP on “**Entrepreneurship**”,Sponsored by “ DST , Government of India, New Delhi ”held in SRM University, Modinagar on14-28 June 2017
- Participated in International Conference on “**Recent development in computational and information technology**”, Sponsored by “CDAC” held at SRM University, Modinagar on 20-27 February 2016
- Participated in FDP entitled “**innovative approaches in mathematical & statistical sciences**”, held at SRM University, Modinagar on 6-11 July 2015
- Attended a week Short Term Course on “**E-governance, Eco-Preneurship and Green IT in Technical Institutions through ICT**” recognized by AICTE, 09-13 Feb 15
- Worked as a Member of the Organizing Committee at the “**International conference on advance techniques & devices in mathematics & physical sciences**” organized by the department of mathematics & physics, SRM univ, NCR campus modinagar, 23-25 January 2015
- Worked as a Member of the Organizing Committee in Nation Workshop entitled “**Mathematical analysis and Modeling**” organized by the department of mathematics, SRM univ, NCR campus modinagar, 5<sup>th</sup> April 2013
- Worked as a Member of the Organizing Committee at National Conference on “**Mathematical Analysis & Modelling**” organized by the department of Mathematics SRM University, NCR Campus, Modinagar Ghaziabad, Uttar Pradesh (India), March 30-31, 2012

- Worked as a Member of the Organizing Committee at International Conference on **“Role and Responsibilities of Humanities and Social Sciences in Technical Education”** organized by SRM University, NCR Campus, Modinagar Ghaziabad, Uttar Pradesh (India), In association with India Inter–Continental Cultural Association, Chandigarh India., March 16 – 17, 2012
- Participated in National Symposium on **“Biodiversity and Germplasm Conservation”**, Organized by D. N. College, Meerut, 14 Nov '06
- Attended a National Seminar on **“Recent Trends in Advancement of Mathematical & Physical Science ”** Organized by D. N. College, Meerut, 6 Nov '06
- Participated in the **8<sup>th</sup> Conference Of The International Academy Of Physical Sciences (CONIAPS- VIII)** Dec. 29-31, (2005).

#### **Work Experience:**

- Presently working at SRMIST as an Assistant Professor from June 2010 till date.
- Worked as a lecturer at Meerut College Meerut from 01 July 2008 to 13 June 2010.
- Worked as a lecturer at NAS College Meerut from 05 July 2005 to 30 June 2008.

#### **Professional Memberships:**

- Life Member of Ramanujan Mathematical Society
- Life Member of the Indian Society for Technical Education
- Member of the International Association of Engineers (IAENG)