Dinesh**Tripathi**

About

Assistant Professor
Manav Rachna University,
Faridabad, India
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in

Languages
English, Hindi

Software
Matlab, Python
LaTeX, Octave

Hobbies
Reading, Tourism,
Photography

Research Interests

Approximation Theory, Complex Polynomial Approximation.

Education

2016	**Ph.D.** Complex Analysis	Banasthali University, Rajasthan

"On Extemal Problems and Location of Zeros of Polynomials"
The thesis is equipped with some improved generalization and extension of some well-known complex polynomial inequality in terms of derivative, polar derivative, maximum and minimum modulus principle viz. Bernstein inequality [1926,1932], Malik [1969], Ankeny and Rivilin [1955], Rivilin [1960], Aziz [1988, 1989], Xin Li [2011] inequalities etc. It is comprising with 7 paper published in various international journal of repute and 4 conference proceedings.

2005–2007	**M.Sc.** in Mathematics	DDU Gorakhpur University, Gorakhpur
2002–2005	**B.Sc** in Mathematics and Physics	DDU Gorakhpur University, Gorakhpur

Experience

2008-2011	**Manav Rachna University, Faridabad**	Lecturer
2011-2021	**Manav Rachna University, Faridabad**	Assistant Professor
Since 2021	**Manav Rachna University, Faridabad**	Associate Professor

Publications

[1] **D. Tripathi**. "On the Locations of zeros of Polynomial with quaternionic Variable". In: *(Communicated)* ().

[2] **D. Tripathi**. "A Note on Eneström-Kakeya Theorem for a Polynomial with Quaternionic Variable". In: *Arebian J. Math.* 10 (2020), pp. 1–8. DOI: 10.1007/s40065-020-00283-0.

[3] **D. Tripathi**. "A Refinement of an Inequality due to Ankeny and Rivilin". In: *Stud. Univ. Babes ,-Bolyai Math.* 65.(3) (2020), pp. 325–332. DOI: 10.24193/subbmath.2020.3.01.

[4] **D. Tripathi**. "On The Derivative Of A Rational Polynomial With Prescribed Poles". In: *J. Math. Ineq.* (2019), (Accepted).

[5] **D. Tripathi**, H. G. Hyun, and S. Hans. "On Location of the Zeros of Polynomial (Lacunary Type)". In: *Non-Linear Func.Anal. Appl. Vol.* 24.3 (2019), pp. 555–564.

[6] S. Hans, **D. Tripathi**, A. A. Mogbademu, and Babita Tyagi. "Inequality for Derivatives of Rational functions". In: *J. Interd. Math.* 21.1 (2018), pp. 157–169.

[7] **D. Tripathi**, S. Hans, and Babita Tyagi. "Generalization of An Inequality for the Polar Derivative of Polynomials". In: *Non-Linear Func.Anal. Appl. Vol.* 23.2 (2018), pp. 311–321.

[8] S. Hans and **D. Tripathi**. "Inequalities Describing The Growth Of Polynomials". In: *Non-Linear Func.Anal. Appl.Vol.* 22.1 (2017), pp. 87–98.

[9] S. Hans and **D. Tripathi**. "Some Extension and Generalization of a Polynomial Inequality". In: *Transactions of NAS of Azerbaijan* 37.1 (2017), pp. 109–120.

[10] **D. Tripathi** and S. Hans. "An inequality for the derivative of a rational function with prescribed poles". In: *Bull. Cal. Math Soci.* 108.1 (2016), pp. 29–36.

[11] S. Hans, **D. Tripathi**, and Babita Tyagi. "Some Polynomial Inequalities for The Derivative of Polynomials". In: *Journal of Mathematics* 2014.ID160485 (2014), 5pages.

Conference Proceedings

[1] **D. Tripathi**, S. Hans, and Babita Tyagi. "An Inequality concerning the Derivative of a Polynomials". In: *2nd International Conference on REDSET-2016*. 2016, pp. 85–87.

[2] J. Kaur, **D. Tripathi**, and S. Hans. "Inequalities for the Polar Derivatives of Polynomials". In: *International Conference on Emerging Trends in Computational and Applied Mathematics"*. 2014, pp. 308–310.

Conference Presentation

- In: *International GeoGebra Conference (Attended)*. (Organized by IIT Bombay(Online)). 2021.

- "On the Location of Zeros of a Polynomial (with Quaternionic Variable)". In: 85th *Annual conference of Indian Math. Soci.-2019-An international Meet*. (Department of Mathematics, IIT Kharagpur). 2019.

- "A Note on Enestr̈om-Kakeya Theorem". In: 8th *Conference of The Indian Science Congress Association on Reaching the Unreached Through Science and Technology"-2017*. (Department of Mathematics and Computer Science D.S.B. Campus, Kumaun University, Nainital). 2017.

- "On the Location of Zeros of a Polynomial with Restricted coefficients". In: 2nd *International Conference on Computational Mathematics and Statistics (ICCMS-2017)*. (organized by Department of Mathematics, University of Putra Malaysia and Department of Mathematics and statistics, Banasthali University, Rajasthan. (SCOPUS Indexed)). 2017.

- "An Inequality concerning the Derivative of a Polynomials". In: 2nd *International Conference on Recent Development in Science, Engineering and Technology (REDSET-2016)*. (organized by GD Goenka University, Gurgaon, Haryana in association with University of Arakansas (USA). (SCOPUS Indexed)). 2016.

- "Generalization of Theorem of P. Turán Conserning Derivative of Polynomials". In: *National conference in "Roll of Mathematical Science in Science and Technology"*. (Organized by Indian Socity of Mathematics and Mathematical Science, held at Gorakhpur University, Gorakhpur, U.P. (DST, CSIR, UGC funded)). 2014.

- "On a Theorem of P. Turán for the Derivatives of Polynomials". In: *International Conference on "Emerging Trends in Computational and Applied Mathematics"*. (held at ITM University, Gurgaon Haryana. (DST, UGC funded)). 2014.

Workshops & FDP

- "Research Based Pedagogical Tools". In: *Workshop orgnised by IISER Pune at IIT Delhi Sonipat Campus*. Feb 28-29 & March -01, 2020.

- "Seven Days National Workshop of "Vaidic Ganit (Webinar)"". In: *Workshop orgnised by Vaidic Vigyan Kendra, BHU, Varanashi*. November-2020.

- "Inculcating Universal Human Values in Technical Education". In: *FDP organized by AICTE*. March 21-25, 2022.

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[0]https://scholar.google.com/citations?user=fi8nGxgAAAAJhl=en
[0]https://manavrachna.edu.in/faculty/dr-dinesh-tripathi/

- "2nd-International webinar "Vedas for World Peace". In: *FDP by Vaidic Vigyan Kendra, BHU, Varanashi*. December-2020.
- "Recent Trends in Domination and Graph Labelling (RTDGL 2021)". In: *Workshop organized by Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications (ADMA)*. May 27-31, 2021.
- "Optimization using MATLAB through ICT". In: *STC program organized by NITTR Chandigarh and MHRD held at Manav Rachna University*. Aug 27-31, 2018.
- "Climate change and Disaster Management". In: *National Seminar organized by Manav Rachna Education Institution in collaboration with The Center for The study of Administration of Relief held at Manav Rachna university, Faridabad*. June-2016.
- "Application of wavelets". In: *Faculty Development Program organized by Department of Mathematics, Manav Rachna University held at Manav Rachna University Faridabad*. May-2014.
- "Positive Thinking and Attitude". In: *Faculty Development Program organized by Manav Rachna Staff College held at Manav Rachna University*. Aug-2015.

Invited Talk

- *Writing Scientific formulae Equation, and Preparing manuscript Generating Bibliography*, delivering a talk in Workshop on "Scientific Writing Using LaTeX" held at Department of Mathematics, Manav Rachna University, Faridabad, Jan 17-18, 2020 .

Professional Membership

- Life Member of Indian Mathematical Society (No. L/2019/93), INDIA.
- Member of Editorial board in "Pure and Applied Mathematics Juornal(PAMJ)", NY, U.S.A.
- Member of International Association of Engineers (IAENG) (No. 255090).

Subject Taught

- Engineering Maths (AICTE)
- Discrete Mathematics
- Real Analysis
- Advance Analysis
- Measure Theory
- Functional Analysis
- Field Theory
- Integral Equation & COV
- Complex Analysis

Additional Responsibility with in University

- Member of **Board of Study** of University.

- Member of **Board of Faculty** of University.

- Holding the position as **Chief Program co-ordination** since 2015

- Member of **Anti Raging committee** since 2017.

- Performed duty of **Centre Superintendent** from 2015-2018 in University examination.

- **Course Coordinator** of various UG and PG courses.

- **Visiting Faculty** in Manav Rachna College of Engineering, Faridabad in **Evening Shift**, session July 2011-June 2013.

- **Deputy Superintendent (University Observer)** of Maharshi Dayanand University, Rohtak, May 2015, examination at Manav Rachna College of Engineering, Faridabad.

Additional Responsibility out side the University

- **Visiting Faculty** in Manav Rachna International University, Faridabad in **Evening Shift**, session July 2009-Dec 2009.

- **Centre Superintendent (University Observer)** for Maharshi Dayanand University, Rohtak, Dec 2013-Jan 2014 Examination at Institute of Management and Technology, Faridabad.

- **Centre Superintendent (University Observer)** for Maharshi Dayanand University, Rohtak, Dec 2014-Jan 2015 examination at Rawal Institute of Technology and Managements, Faridabad.

Personal Information

Father's Name	: Sh. Shyam Narayan Tripathi
Mother's Name	: Smt. Bimala Tripathi
Date of Birth	: 05/08/1983
Marital Status	: Married
Phone No.(Residence)	: +91-8882780414, 9452837762
Mailing Address	: H.No. A-3490, Street No. 7, S.G.M.Nagar, Faridabad-121001, Haryana
Permanent Address	: Vill. Nandapar, P.O.-Jaitpur Dist.- Gorakhpur-273212 (U.P.)

References

- Prof. Babita Tyagi, *former professor*, Department of Mathematics, Galgotias University, Gr. Noida, @babita40@gmail.com.

- Prof. J. L. Arora, *former professor*, Department of Mathematics and Statistics, Banasthali Vidyapith, Jaipur, @jlarora@hotmail.com.

- Prof. Raj Ahuja, *former professor*, Department of Mathematics, IIT Delhi, @rahuja04@yahoo.co.in.

- Dr. Sunil Hans, *Assistant Professor*, Department of Mathematics, Amity University, Noida, @sunil.hans82@gmail.com

- Dr. Amit B. Singh, *Assistant Professor*, Department of Computer Science and Engineering, Jamia Humdard, Delhi, @amit.bhooshan84@gmail.com.

Place: Faridabad   (Dinesh Tripathi)