

Curriculum Vitae

Dr. Vineet Srivastava

Assistant Professor (Applied Mathematics)

Department of Applied Science & Humanities

Rajkiya Engineering College, Azamgarh

e-mail: vineeitbhu@gmail.com,

vineemaths@live.com,

vineetsrivastava@gecazamgarh.ac.in

Mob. No. 9953106755, 7217777498



Objective: To learn, develop, share, and spread my knowledge and to strengthen the organization using my full potential and talent.

Present Affiliation:

- Working as Assistant Professor at Rajkiya Engineering College, Azamgarh from 8th December 2017 to till date.

Work Experience:

- **Teaching: Total Experience 12 years.**
 - i. Teaching experience of B.Tech. Students at Rajkiya Engineering College, Azamgarh, from 8th December, 2017 to till date.
 - ii. Teaching experience of B.Tech. and M. Tech (ME) Students at Ajay Kumar Garg, Ghaziabad, from 2nd Feb. 2014 to 7th December, 2017.
 - iii. Teaching experience of B. Tech. and M. Tech (First Sem.) Students at IEC – CET, Gr. Noida, from Sept. 2012 to Jan. 2014.
 - iv. Two years teaching experience of B. Teach. Students at BBDIT, Ghaziabad, from Sept. 2010 to Sept. 2012.
 - v. One-year teaching experience of B. Tech. Students at Devprayag Institute of Technical Studies, Allahabad, from Aug. 2009 to Sept. 2010.
- **Research:** Eleven years' experience in research (after Ph.D.) in Mathematical modeling. During research I learn some latest and advance numerical methods such as Modified Adomian Decomposition Method, Homotopy Perturbation Method, New Iterative Method, Mess Free Method to get approximate analytical solution of some non-linear/linear, real-world problems.

- ***CURRENT RESEARCH INTERESTS:***

- i. Mathematical Modeling real world problems i.e. Bio Mathematics.
- ii. Using Advance/Latest Numerical Techniques to find out the solution of real-world problems.
- iii. Mathematics for Machine Learning and its Application for real world problem.

- **ADMINISTRATIVE EXPERIENCES:**

- i. Nominated for BOS in Mathematics for Mentor Institute GEC, Karad as per guidelines of NPIU.
- ii. Working as member of IQAC from 26th December to till date.
- iii. Working as **Head of Department** (Department of Applied Sciences & Humanities) at REC, Azamgarh from 22nd December to till date.
- iv. Working as **Dean (Academics)** at REC, Azamgarh from 24th October 2019 to 16th January 2021.
- v. Working as **Dean (R&D)** at REC, Azamgarh from 23rd June 2018 to Feb 2019.
- vi. **Coordinator Digital Evaluation** at REC, Azamgarh from 11th May 2018 to till date.
- vii. **Library Office Incharge** at REC, Azamgarh from 22nd December 2017 to Feb 2019.
- viii. **Warden Boys Hostel** at REC, Azamgarh from 22nd December 2017 to Oct 2018.
- ix. **Chief Warden Hostel** at REC, Azamgarh from Oct 2018 to Feb 2019.
- x. **Working** as member of Anti-Ragging Cell from 22nd June 2018 to till date.
- xi. Working as **Time Table coordinator** and **Class Coordinator** in the Department.
- xii. Working as **Section In-charge** in **AKGEC, Ghaziabad** from July 2014 to December 2017.
- xiii. Additional to above all, Work as **Central Controller** in UPSEE Examination in **2017, 2018 & 2019** appointed from AKTU Lucknow.
- xiv. Work as **Nodal Officer** of Ghazipur in UPSEE Examination in 2020 appointed from AKTU Lucknow.
- xv. I was a member of **Project Review and Supervisory Group**, Department of Higher Education, **MHRD, Govt. of India** from **May 29, 2012**, for the Project **“Next Generation e-content for Numerical Methods and its applications.”**

- **PUBLICATIONS (Refereed Journals)**

International Journals

- **Vineet Srivastava**, “Approximate Analytical Solution of Linear and Nonlinear Fractional Delay Differential Equations using Variational Iteration Method”, Open Science Journal Vol.5 (4) (2020), pp. 1 -11.
- **Vineet Srivastava**, “NUMERICAL STUDY OF HEAT TRANSFERS IN TISSUES DURING HYPERTHERMIA USING MODIFIED BERNSTEIN POLYNOMIALS”. J. Math. Sci. & Comp. Math., Vol.2, No.1, November 2020, pp 129 – 144.
- **V. Srivastava** and Dharmendra Tripathi and O. Anwar Beg, “Numerical study of oxygen diffusion from capillary to tissues during hypoxia with external force effects”. Journal of Mechanics in Medicine and Biology. Vol. 17, No. 2 (2016) 1750027 (20 pages) Published 23 January 2017.
- **V. Srivastava**, “Dual-Phase-Lag Heat Equation of Fractional Order of heat transfer within a micro scale region”. WJMS, 2013, Vol. 9 (3), pp. 216-222.
- **V. Srivastava** and K.N. Rai, “Multi-term fractional diffusion equation for Oxygen delivery through capillary to tissues”. Mathematical and Computer Modelling, 51 (2010) 616-624.
- K.N. Rai and **V. Srivastava**, “Mathematical modeling of first to third degree burn injury by sinusoidal heating source”. Int. J. of Applied Mechanics and Engineering, 2009, vol. 14, No.2, pp. 489-500.
- **V. Srivastava** and K.N. Rai, “Approximate analytical solution of 3D fractional microscale heat equation using modified homotopy perturbation method”. Applied Mathematical Sciences Vol. 3, 2009, no. 32, 1557 - 1565.

National Journals

- **V. Srivastava**, K.N. Rai and S. Das, “Analytical approach to micro scale bio-film heat transport using homotopy perturbation method”. Int. J. of Applied Mathematics and Computation, 2009, vol. 1(3), pp 148-158.

International/ National Conference:

- **Vineet Srivastava** and Dharmendra Tripathi, “Numerical study of oxygen diffusion from capillaries to tissues using fractional diffusion equation containing force term (P-163), International Conference on Recent Trends in Mathematics (**ICRTM 2015**), July 10 – 12, 2015, Department of Mathematics, University of Allahabad, Allahabad, U.P.

Patent:

Title of the invention: **A NEW APPROACH FOR ESTIMATION OF EIGEN VALUE AND EIGEN VECTOR**. Application No.202011022086 A, INDIA, Date of filing of Application :27/05/2020, Publication Date: 26/06/2020, No. of Pages: 17, No. of Claims: 3

ACTIVITIES:

(Session Chaired/ Completed Certification Course / FDPs / Participating / Organizing Conference / Workshop / Short Term Training Program)

- i.** Successfully completed a 4-Week Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” from March 15 - April 14, 2021 and obtained Grade A.
- ii.** Participated and Successfully completed a five – day workshop on “Mathematics for Machine Learning”, which is sponsored by AICTE and organized by Department of Basic & Applied Science, NIT Arunachal Pradesh from 25th – 30th January 2021 in online mode.
- iii.** Successfully completed AICTE Training And Learning (ATAL) Academy Online FDP on "Quantum Computing" from 2021-1-18 to 2021-1-22 at Sathyabama institute of science and technology.
- iv.** Session chaired in the International Conference on Artificial Intelligence and Sustainable Engineering (AISE 2020) which was held from 18th,19th and 20th January 2021, at NIT Goa, through online Mode. TRACK NAME- Machine Learning , TRACK NO.-T8, 19th JANUARY 2021,2:00- 4:30 PM.
- v.** Successfully completed AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2021-1-11 to 2021-1-15 at Central University of Kerala.
- vi.** Successfully completed AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Engineering" from 2021-1-4 to 2021-1-8 at G.L.Bajaj Institute of Technology and Management.
- vii.** Successfully completed NPTEL online Certification course on Mathematical Modelling Analysis & Application, which is AICTE approved FDP in December 2020.

- viii. Participated in an International E- Conference on “Recent Advances in Biomathematics” held on 18 -19 December 2020 in ZOOM platform.

- ix. Participated in 2020 NPIU/ TEQIP-III sponsored Faculty Training on Future Skill Technologies on “Artificial Intelligence and Machine Learning” from 20th – 27th November, 2020, organized by IIT Indore.

- x. **Organized** a 5-day online workshop on “**Machine Learning and its applications using Python**” in collaboration with SPIU U.P. and REC Azamgarh, from 14th -18th September 2020.

- xi. Attended two days’ workshop on Summit Connect, 08-09 Nov 2019 at BMS college of Engineering Bengaluru, by SPIU UP & SPIU Karnataka.

- xii. AICTE sponsored QIP Short Term Course on “Advanced Numerical Schemes for Scientists and Engineers” Organized by Department of Mathematical Sciences IIT (BHU), Varanasi, from August 12 – 16, 2019.

- xiii. **Organized** a National Seminar on “**Recent Advancement in Science, Technology and Management (RASTM-2019)**” in Department of Applied Science and Humanities, Rajkiya Engineering College, Azamgarh, from 26-27 April, 2019.

- xiv. **Organized** A NBA Workshop on “**Outcome Based Education**” Sponsored by TEQIP-III being Programme – Coordinator, at Rajkiya Engineering College, Azamgarh, from March 16th - 17th 2018.

- xv. Participated in Short Term Course on “**Computational Methods for Integral & Differential Equation (CMIDE 2018)**”, Organized by Department of Mathematical Sciences, **IIT B.H.U.**, Varanasi from December 10th – 16th , 2018

- xvi. Participated in Special Summer Workshop on “**Active Learning, Autonomy, Academic Governance and R&D**”, Organized by IIT Roorkee, from June 18 – 22, 2018.

- xvii. Participated in Faculty Development Program On “**Total Quality Management**” Organized by Department of Mechanical Engineering, Rajkiya Engineering College, Azamgarh, from June 04-08, 2018.

- xviii. Participated in International Symposium on Computational Fluid Dynamics, Department of Mechanical Engineering, Manipal University Jaipur, Rajasthan, from December 18, 2015.

- xix. Paper Presented in International Conference on Recent Trends in Mathematics (**ICRTM 2015**), Department of Mathematics, University of Allahabad, Allahabad, U.P. from July 10 – 12, 2015.

- xx. National Workshop Cum Training Programme on Advanced Numerical Techniques And Applications, **DST – CIMS, BHU, Varanasi**, from June 29 to July 11, 2009.
- xxi. Indo-German Workshop-cum-Lecture Series on “Computational Models and Methods Driven by Industrial Problems”, **IIT Madras**, from January 5 to January 16, 2009.
- xxii. Short Term Course on C – language programme, **Computer Centre, B.H.U.**, Varanasi, from 1st September to 6th September, 2008.
- xxiii. Short Term Training Programme on Scientific Computing and Modeling, **NIT, Warangal**, from 5th May to 10th May, 2008.

Reviewer in the reputed journals:

International Journal of Biomathematics, World Scientific.

SOCIETY: Associated with

1. **American Mathematical Society (AMS)** as member.

SOFTWARE PROFICIENCY:

(1) Mathematica v.6 (2). Matlab

PERSONAL DETAILS:

Name: Dr. Vineet Srivastava

ORCHID Id: <https://orcid.org/0000-0002-9259-1076>



Academic Qualifications:

i. **Ph.D.** from **IIT – B.H.U, Varanasi** in 2009.

Topic of Research:

Mathematical Modelling and Numerical studies of some Bio-Medical Transport Processes.

ii. **CSIR – NET** qualified in June 2012.

iii. **JRF** (DST – CIMS, B.H.U., Varanasi, in 2008 - 2009).

iv. Ph. D. course work from **IT - B.H.U.** in 2007 with **CGPA** 8.47.

v. M.Sc. (Mathematics) from Banaras Hindu University, Varanasi in 2003 with **64.5%**.

vi. B.Sc. (P.M.C.) from U. P. College, Varanasi in 2001 with **64%**.

vii. Intermediate (10+2) from U. P. I. College, Varanasi in 1998 with **68.4%**.

viii. High School (10th) from Saraswati Inter College, Varanasi in 1996 with **69.7%**.

References:

- i. **Prof. K. N. Rai** (ret.), Ex. HoD, Department of Applied Mathematics, **IIT – B.H.U.**, Varanasi.
- ii. **Prof. S. K. Singh**, Ex. HoD, Department of Mathematics, **NIT, Patna**.
- iii. **Dr. Dharmendra Tripathi**, Associate Professor, Department of Mathematics, **NIT, Srinagar**
- iv. **Dr. Vineet Kumar Singh**, Associate Professor, Department of Mathematical Sciences, **IIT- B.H.U.**, Varanasi.
- v. **Dr. Rajesh Kumar Pandey**, Associate Professor, Department of Mathematical Sciences, **IIT-B.H.U.**, Varanasi.

Dated: 19 April 2021

(Dr. Vineet Srivastava)