

# Curriculum Vitae



## Name

Dr. Rajendra Kumar Tripathi

## Designation

Associate Professor  
Department Of Applied Sciences and Humanities (Mathematics)  
Faculty of Engineering and Technology  
Khwaja Moinuddin Chishti Language University, Lucknow, U.P.

## Address

ES - 2/218, Sector – F, Jankipuram, Lucknow.  
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## Education

<b>1989</b>	<b>High School</b>	<b>U.P. Board</b>	<b>Passed with II<sup>nd</sup> Div. (59.5%)</b>
▪	Mathematics, Science, S. Science, English, Hindi, Biology.		
<b>1991</b>	<b>Intermediate</b>	<b>U.P. Board</b>	<b>Passed with I<sup>st</sup> Div. (60.8%)</b>
▪	Mathematics, Physics, Chemistry, Hindi, English.		
<b>1994</b>	<b>B.Sc.</b>	<b>Kanpur University</b>	<b>Passed with II<sup>nd</sup> Div. (52.3%)</b>
▪	Physics, Mathematics, Mill. Science.		
<b>1997</b>	<b>M.Sc.</b>	<b>Kanpur University</b>	<b>Passed with II<sup>nd</sup> Div. (55%)</b>
▪	Mathematics		
<b>1999</b>	<b>B.Ed.</b>	<b>Kanpur University</b>	
▪	<b>Theory:</b> - Compulsory Papers, Physics, Maths. <b>Passed with II<sup>nd</sup> Div. (55.6%)</b>		
▪	<b>Practical:</b> - Physics, Maths. <b>Passed with Ist Div. (65.5%)</b>		
<b>2007</b>	<b>Ph.D.</b>	<b>Kanpur University</b>	

- **Topic:** - “Study of Some Crack Problems of Elasticity”
- **Subject:-** Mathematics
- **Faculty:-** Science
- **Research Center:** - D.A.V. (P.G.) College, Kanpur

<b>2022</b>	<b>D.Sc.</b>	<b>University Of Marlyne (U.S.A.)</b>
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<b>Research Papers</b>
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1. A Study of the Orthonormal series expansion of Generalised Functions published in Journal of Emerging technologies and Innovative Resrearch August 2018, Volume 5, Issue 8, ISSN : 2349-5162
2. A Griffith crack at the interface of two bonded dissimilar micro polar elastic half-planes. Published in Journal Of Mathematics, Photon 109(2019) 180 -190. ISJN: 8352-7329 Impact Factor: 3.58
3. The effect of internal pressure on penny shaped crack at the surface of two bonded dissimilar micro polar elastic half spaces. Published in International Journal of Mathematics and Computer Applications Research; T.J.P.R.C. ISSN: 2250-2378. Impact Factor: 6.9195
4. A problem of Thermal stress in bonded dissimilar micro polar elastic half spaces containing a penny shaped crack at the interface. Published in Ganita. ISSN: 0046-5402. No Impact Factor
5. Thermal stress field due to a system of Griffith cracks lying at the interface of two bonded dissimilar micro polar elastic half planes. Published in Indian Journal of Scientific Research. ISSN: 2250-0138. Impact Factor: 1.75(2018).
6. Pair of coplanar Barenblatt crack at the interface of two bonded dissimilar micro polar elastic half planes. Published in Indian Journal of Scientific Research. ISSN: 2250-0138. Impact Factor: 1.75(2018).
7. Least weight Design of a Brittle Cantilever Loaded Uniformly. Published in International Journal Of Scientific Research In Engineering and Management (IJSREM) ISSN: 2582-3930. Impact Factor: 4.106
8. AXISYMMETRIC PUNCH PROBLEM IN AN INFINITE ELASTIC THICK PLATE. Published in International Journal Of Scientific Research In Engineering and Management (IJSREM) ISSN: 2582-3930. Impact Factor: 4.106.
9. On Simultaneous Dual Series equations involving Konhauser Biorthogonal Polynomials. Published in International Journal Of Scientific Research In Engineering and Management (IJSREM) ISSN: 2582-3930. Impact Factor: 4.106.
10. The Stress Field Due to Infinite Row of Parallel Exterior Cracks in a Strip. Published in International Journal of Mathematics and Computer Applications Research; T.J.P.R.C. ISSN: 2250-2378. Impact Factor: 6.9195.
11. Seven Series Equations Involving Jacobi Polynomials of Different Indices. Published in International Journal of Mathematics and Computer Applications Research; T.J.P.R.C. ISSN: 2250-2378. Impact Factor: 6.9195.

12. Stress Intensity Factors For Two Griffith Cracks Opened By A Symmetrical System Of Body Forces In A Stress free Strip. Published in Turkish Online Journal of Qualitative Inquiry Volume 12, Issue 3, June 2021: 4905 -4917 [Scopus Journal]
13. Thermal Stress in Bonded Dissimilar Elastic Half Planes Containing a Griffith Crack at The Interface. Published in Indian Journal of Scientific Research. Volume 12 Issue 2. ISSN: 2250-0138
14. The Stress Intensity Factor of an Exterior Crack in a stress free strip with forces at crack face. Published in Natural Volatile and Essential Oils, Volume 8 Issue 5, 2021: 3377-3383 [Scopus Journal]
15. Quadruple Series Equation involving Generalized – Bateman K' Function. Published in Turkish Journal of Computer and Mathematics Education, Volume 11, Issue 3, 2020, 1594-1598 [Scopus Journal].
16. On a structure defined by a Tensor Field  $f_\lambda$  with complimented frames satisfying  $f^3 - \lambda^r f$  published High Technology letters. ISSN : 1006-6748

#### Other Activities

- Attend short term program on wireless communication from 9-06-08 to 13-06-08 at Firoz Gandhi Polytechnic & Engineering College, Raebareli.
- Attend orientation program for technical teachers 2008 at NIT, Hamirpur (H.P.) from 30-06-08 to 11-07-08.
- Participate in the conference on Maths from 22-12-08 to 23-12-08 at Deptt. Of Maths & Astronomy, Lucknow University.
- Participate in the National Symposium on Modern trend in Differential Geometry & Mathematical Modeling under UGC SAP (DRS-7) program from 24-12-2008 to 25-12-2008 at University of Lucknow.
- Attend short term course on Transportation & its problems and GIS & its application at NIT, Hamirpur (H.P.) from 19-12-09 to 23-12-09.
- Attend National conference on ETASN-2010, ORGANIZED BY F.G.IET on 8-8-2010
- Attend Workshop on Deployment & Use of NPTEL COURSES at IIT-KANPUR from 20-8-2011 to 21-8-2011.
- Participated in Short term course on climate change, disaster management and sustainable development through ICT conducted by rural development department(NITTTR Changidigarh) from 17-11-2014 to 21-11-2014.
- Attend International Workshop cum Seminar on data analysis using R offered by DSMNRU from 23-6-2017 to 29-6-2017.
- Presented a Paper titled “The effect on internal pressure on penny shaped crack at the surface of two bonded dissimilar micro polar elastic half spaces” at National Seminar In Mathematics on Recent Development in Mathematics & Their Applications dated on 18-1-2019.

### **Awards**

- Received “Takniki Gaurav Samman” award in year 2018 given by Smart Foundation.
- Received “Best Faculty award” for the year 2019 given by Northern Foundation of Education and Research.
- Received “Best Faculty in Mathematics” in year 2019 given by Atal Indian Divyang Foundation.
- Received “Senior Scientist Award” by Glocal Environmental and Social Association in year 2021.
- Received “Fellowship Award” by Global Academic Society in year 2021.
- Received “Albert Einstein research Scientist Award” by European Institute of Applied Research in year 2021

### **Memberships**

- Lifetime Member of Bharat Ganita Parisad
- Lifetime Member of Indian Science Congress Association.
- Lifetime Member of Global Academic Society (G.A.S.)
- Lifetime Member of Glocal Environmental and Social Association(G.E.S.A)

### **Books under Credit**

- Maths for Gate at Rapid Book Service, Kishor Bazaar, Sitapur Road, Lucknow  
ISBN: 978-93-82462-96-5.
- Study Of some Crack Problems of Elasticity at Lambert Academic Publishing  
ISBN: 978-62-02794-96-5
- A Textbook of Differential Calculus at Princeton Press – Publishing Company U.S.A.  
ISBN: 978-920-5-20215-4
- Information and Communication Technology at Scientific International Publishing House.  
ISBN: 978-93-94002-80-7
- Advance Linear Algebra at Nitya Publication, Bhopal. ISBN: 978-93-93694-70-6
- Engineering Mathematics III at Unique Publication. ISBN: 978-93-916-15-07-9

### **Edited Book Chapters**

- “A polynomial related to the Hermite Polynomial” published in Recent Research in Physical and Chemical Sciences, Vol 2. , ISBN: 978-93-91248-76-5.
- “Quadruple Series Equation Containing Jacobi Polynomials” published in Advanced Research in Mathematical, Statistical and Computational Sciences, ISBN : 978-93-91248-48-2
- “Micropolar Fluid Model for Blood Flow through a small tapered tube” published in Handbook of Trends in Engineering, Technology and Research, ISBN: 978-93-94339-64-4

### **Patents**

- IOT ENABLED HANDY PROJECTOR , Design No. 370918-001, Published on 09/01/2023 (Indian)

- ELECTRONIC COMMERCE SUPPLY CHAIN MANAGEMENT SYSTEM FOR DECORATIVE MATERIALS USING MACHINE LEARNING, Design No. 20 2022 106 961, Published and Granted on 09/01/2023 (German)
- A SYSTEM AND METHOD FOR HIGH SPEED NEURON IMPLEMENTATION USING VEDIC MATHEMATICS, Design No. 202211055169, Published On 7/10/2022 (Indian).

### **Personal Details**

❖ **Father's Name**

- Mr. Shyam Shankar Tripathi

❖ **Mother's Name**

- Smt. Anandi Devi

❖ **Date Of Birth**

- 10 – 07 – 1973

❖ **Nationality**

- Indian

❖ **Hobbies**

- ❖ Reading Books & Mathematics magazines.

**(Dr. Rajendra Kumar Tripathi)**