

# CURRICULUM VITAE

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## Dr. Raj Shekhar Prasad

**Designation:** Assistant Professor (Senior Scale), Mathematics

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## Academic Qualifications

- B. Sc (2005) in Mathematics, C. M. Science College, Darbhanga, L. N. M. U. Darbhanga.
- M. Sc (2007) in Mathematics, P. G. Department of Mathematics, Patna University, Patna.
- Ph. D (2011) in Mathematics, Under the supervision of Prof. (Dr.) B. G. Prasad, Retired Prof. & Ex-Head, Department of Mathematics, Patna University, Patna.

## Areas of Expertise

- Engineering Mathematics/Applied Mathematics

## Research Interests

- Fluid Mechanics (Magnetohydrodynamics & Porous Media Flow)

## Topics of Ph.D Thesis

- Some unsteady problems in Fluid Dynamics

## Professional Experience

- Assistant Professor (Senior Scale), Mathematics, GEC Buxar (1<sup>st</sup> Aug 2023 – Present), Under Bihar Engineering Education Service.
- Assistant Professor, Mathematics, GEC Buxar (1<sup>st</sup> Aug 2019 –31<sup>st</sup> July 2023), Under Bihar Engineering Education Service.
- Lecturer, Mathematics, Government Polytechnic Gulzarbagh, Patna (07<sup>th</sup> Aug 2018 – 31<sup>st</sup> July 2019), Under Bihar Polytechnic Education Service.
- Assistant Professor (Management Appointee), Patna Women's College (05<sup>th</sup> Aug 2013 – 06<sup>th</sup> Aug 2018)
- Assistant Professor, Mathematics, R.P.S.I.T. Patna (15<sup>th</sup> Mar 2012 –03<sup>rd</sup> Aug 2013)

## Publications

- B. G. Prasad, Rajnish Kumar and Raj Shekhar Prasad, (2013) " MHD FORCED CONVECTION WITH LAMINAR PULSATING FLOW IN A SATURATED POROUS CHANNEL" JOURNAL OF INDIAN MATHEMATICAL SOCIETY (JIMS), 80(1-4), PP 157-171.

- B. G. Prasad, Rajnish Kumar and Raj Shekhar Prasad, (2013) " MHD FORCED CONVERSATION WITH LAMINAR PULSATING FLOW IN A SATURATED POROUS CIRCULAR TUBE" INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS AND MECHANICS (IJAMM), 9(9), pp-44-58.
- Raj Shekhar Prasad and B. G. Prasad (2013) "MHD FORCED CONVERSATION WITH LAMINAR PULSATING FLOW IN A CHANNEL" INTERNATIONAL JOURNAL OF MATHEMATICAL SCIENCES AND ENGINEERING APPLICATIONS(IJMSEA)" 7(I) pp-223-238.
- Kumar Mukesh and Raj Shekhar Prasad (Nov.-Dec 2020) " COMPERISON OF INTERIOR-POINT METHODS VERSUS SIMPLEX METHOD" IOSR JOURNAL OF MATHEMATICS ( IOSR-JM), 16(6) Sr. I, pp-53-59
- EENA BAHAN, RAJ SHEKHAR PRASAD AND R. S. PRASAD (Sep.-Oct. 2020) " MRINDO/S-CI CALCULATION OF ELECTRONIC SPECTRA OF N8 ISOMERS" IOSR JOURNAL OF APPLIED PHYSICS (IOSR-JAP), 12(5) SER. III, PP-48-52. • Study of Couple Stresses on MHD Poiseuille Flow, 2021
- RAJ SHEKHAR PRASAD, RAJNISH KUMAR AND B. G. PRASAD(2021), "STUDY OF COUPLE STRESSES ON MHD POISEUILLE FLOW THROUGH A POROUS MEDIAM PAST AN ACCELERATED PLATE" Bull. Pure Appl. Sci. Sect. E Math. Stat. 40E(1), pp 45-59.
- RAJ SHEKHAR PRASAD AND B. G. PRASAD (2012/11) "Study of Couple Stresses on MHD Poiseuille Flow through Porous Medium in a parallel plate channel" IOSR Journal Of Mathematics, 4(2), pp 10-17.
- Ajay Kumar & Raj Shekhar Prasad (2023) "On dynamical behavior for approximate solutions sustained by nonlinear fractional damped Burger and Sharma–Tasso–Olver equation" International Journal of Modern Physics B, <https://doi.org/10.1142/S0217979223502284>.
- A. Kumar,R.S. Prasad, H.M. Baskonus, J.L.G. Guirao, "On the Implementation of Fractional Homotopy Perturbation Transform Method to the Emden-Fowler Equations", Pramana - Journal of Physics Accepted-2023.
- Jaya Bhushan, Md. Mushtaque Khan, and Raj Shekhar Prasad, "Vector Optimization with Non-Solid or Empty-Interior Cones "Bulletin of Pure and Applied Sciences. Mathematics & Statistics Vol.45 E, No.1. January-June 2026: P.48-52 .

### **Conferences & Workshops**

- Participated and presented a paper in the 78th Annual conference of the Indian Mathematical Society, held in the Banaras Hindu University, Varanasi, during January 22-25, 2013.

- Participated and presented a paper in the National conference on recent developments in Mathematics and related Areas ,held in the Patna Science College, Patna University, Patna during December 22-24, 2012.
- Participated and presented a paper in the 11th Conference of the Bihar Mathematical Society (BMS), held in the College of Commerce, Patna, during July 07-08, 2012.
- Participated and presented a paper in the 91st Annual conference of the Indian Mathematical Society, held in the Lacknow University, during December 26-29, 2025.
- Participated and presented a paper in the International Conference on " Mathematical & Statistical Modeling in innovative Areas" organised by Department of Mathematics, Adarsh College Rajdhanwar, Giridih (Jharkhand), during August 23-24,2025  
Membership
- Life Member, Indian Mathematical Society

### Awards & Achievements

- Secured 2nd Rank in M. Sc (University Merit)