



Curriculum Vitae

Dr. Deepak K. Maurya

Assistant Professor

Department of Mathematics



Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research

Veer Bahadur Singh Purvanchal University, Jaunpur -222003 (U.P.), India

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Academic Details:

Exam. Passed	University / Board	Year of Passing / Appearing	Division/ Rank	Subject(s)
B. Sc.	Dr. R. M. L. Avadh University, Ayodhya	2014	1 st	<i>Physics, Chemistry, Mathematics</i>
N.S.S.	Dr. R. M. L. Avadh University, Ayodhya	2014	-----	-----
M.Sc.	University of Allahabad, Prayagraj	2016	1 st	<i>Mathematics</i>
NET-CSIR	CSIR Complex, Pusa, New Delhi	December 2015	AIR-96	<i>Mathematical Sciences</i>
		December 2016	AIR-99	
		June 2017	AIR-73	
GATE	IIT Roorkee	January 2017	AIR-291	<i>Mathematics</i>
JRF-CSIR	CSIR Complex, Pusa, New Delhi	December 2017	AIR-196	<i>Mathematical Sciences</i>
Ph.D.	University of Allahabad, Prayagraj	22 June 2021	Thesis Submitted	Title: <i>A Study of Certain Viscous Fluid Flow Problems and Their Applications</i> Supervisor: <i>Prof. (Dr.) Satya Deo</i>
		22 February 2022	Thesis Awarded	

Research/Teaching Interest:

Research Interest: Fluid Mechanics, Flow through porous media, MHD flow

Teaching Interest: Fluid Mechanics, Classical Mechanics, Mechanics, Differential Equations, Integral Equations, Numerical Analysis, Differential and Integral Calculus, Geometry, Operation Research.

Personal Profile Pages:

<http://www.vbspu.ac.in/faculty/> (VBSPU Faculty)

<https://scholar.google.com/citations?user=XBbJlogAAAAJ&hl=en&oi=ao> (Google Scholar)

<https://www.researchgate.net/profile/Deepak-Maurya-5/research> (ResearchGate)

Life Membership:

- Center for Professional Advancement Continuous Education (CPACE)
- International Multidisciplinary Research Foundation (IMRF)
- Mathematical Society-BHU
- Global Initiative of Academic Networks (GIAN)

Awards:

- International Research Excellence Award-2022 in Fluid Mechanics
- National Academic Excellence Award-2022 in Fluid Mechanics
- Junior Research Fellow (JRF)
- 3rd Prize in Paper Presentation entitled “*Generalized Stream Function of the Brinkman Equation in the Cylindrical-Polar Co-ordinates*” in NCRTMA-2019.

Experiences:

- Working presently as an Assistant Professor (since November 2019) in the Department of Mathematics, Prof. Rajendra Singh (Rajju Bhaiya) Physical Sciences for Study & Research, Veer Bahadur Singh Purvanchal University, Jaunpur-222003 (U.P.), India.
- Taught to the B.A./B.Sc. (Mathematics) students in Department of Mathematics, University of Allahabad, during academic sessions 2017-18, 2018-19 and 2019-20 as a research scholar.

Guided Students:

- ✓ Abhishek Pandey, Enrol. No. PU16/263706
- ✓ Diksha Sharma, Enrol. No. PU16/352776
- ✓ Shivani Srivastava, Enrol. No. PU13/578512
- ✓ Vibha Maurya, Enrol. No. PU16/354068

Guiding Students:

- Anant Chaudhary
- Fiza Akhtar

Responsibilities in the Department:

- ✓ Internal Assessment of B.Sc. Semester-1(Mathematics) and B.Sc. Part-3 (Mathematics) students during academic session 2021-2022.
- ✓ Admission coordinator of M.A./M.Sc. (Mathematics) during academic session 2020-2021.

Academic Activities/Responsibilities:

- Played a role of Convenor by organizing a national seminar (online) on topic “134th Birth Anniversary of Great Indian Mathematician Srinivasa Ramanujan” on December 22, 2021 in Department of Mathematics, Rajju Bhaiya Institute, VBSPU.
- Played a role of Convenor by organizing a national seminar (online) on topic “Career Opportunities in Mathematics” on September 11, 2021 in Department of Mathematics, Rajju Bhaiya Institute, VBSPU.
- Played a role of Co-convenor by organizing a seminar on “National Mathematics Day” on December 22, 2020 in Department of Mathematics, Rajju Bhaiya Institute, VBSPU.

Orientation and Faculty Development Programme:

- Participated in 1-week *Faculty Development Programme* on “National Education Policy-2020” during March 28, 2022 - April 03, 2022 organized by Ramanujan College, University of Delhi.
- Participated in 1-week *Faculty Development Programme* during September 21, 2020- September 25, 2020 organized by Mathematics and Scientific Computing Department, Madan Mohan Malaviya University of Technology, Gorakhpur.
- Participated in 4-week *Induction/Orientation Programme* during June 04, 2020 - July 01, 2020 organized by Ramanujan College, University of Delhi.

Invited Talk:

- Delivered a lecture on topic “*Geometrical Meaning of Differential Equations: Singular Solutions*” on February 12, 2021 in Department of Mathematics, Govt. S.S.A. P.G. College Sihora Jabalpur (M.P.).

Members of Committees:

- Board of Studies (B.O.S.) Committee, Department of Mathematics, VBSPU
- Ph.D. Ordinance Committee, V.B.S. Purvanchal University
- Ordinance Committee, V.B.S. Purvanchal University
- Plagiarism Checker Committee, V.B.S. Purvanchal University
- Monitoring Committee, V.B.S. Purvanchal University
- Time-Table Committee, Rajju Bhaiya Institute, VBSPU
- Sports Committee, Rajju Bhaiya Institute, VBSPU
- Safety and Security Committee, Rajju Bhaiya Institute, VBSPU

Published Research Papers:

- S. Deo and **D. K. Maurya**, Investigation of MHD Effects on Micropolar–Newtonian Fluid Flow Through Composite Porous Channel, *Microfluid. Nanofluid.*, vol. 26, Article no. 64, pp. 1-16, 2022, I.F. 3.090 (**Q1 & SCI**).
- **D. K. Maurya** and S. Deo, Effect of Magnetic Field on Newtonian Fluid Sandwiched Between Non-Newtonian Fluids Through Porous Cylindrical Shells, *Spec. Top. Rev. Porous Media*, vol. 13 (2), pp. 75-92, 2022, I.F. 0.466 (**SCOPUS**).
- S. Deo, **D. K. Maurya** and A. N. Filippov, Effect of Magnetic Field on Hydrodynamic Permeability of Biporous Membrane Relative to Micropolar Liquid Flow, *Colloid J.*, vol. 83(6), pp. 662-675, 2021, I.F.: 0.93 (**SCI**).
- **D. K. Maurya**, S. Deo and D. Yu. Khanukaeva, Analysis of Stokes Flow of Micropolar Fluid Through a Porous Cylinder, *Math. Meth. Appl. Sci.*, vol. 44(8), pp. 6647-6665, I.F.: 2.321 (**Q1 & SCI**).
- S. Deo, **D. K. Maurya** and A. N. Filippov, Influence of Magnetic Field on Micropolar Fluid Flow in a Cylindrical Tube Enclosing an Impermeable Core Coated with Porous Layer, *Colloid J.*, vol. 82(6), pp. 649–660(2020), I.F.: 0.866 (**SCI**).
- **D. K. Maurya** and S. Deo, Stream Function Solution of the Brinkman Equation in Parabolic Cylindrical Coordinates, *Int. J. Appl. Comput. Math.*, vol. 6:167 (2020), (**SCOPUS**).
- S. Deo and **D. K. Maurya**, Generalized Stream Function of the Brinkman Equation in the Cylindrical-Polar Co-ordinates, *Spec. Top. Reviews Porous Media*, vol. 10(5), pp. 421-428(2019), I.F. 0.466 (**SCOPUS**).

Paper presented in conferences:

- Presented the research paper entitled “*Effect of Magnetic Field on Newtonian Fluid Sandwiched Between Non-Newtonian Fluids Through Porous Cylindrical Shells*” in the international conference entitled “Advances in Mechanics, Modelling, Computing and Statistics (ICAMMCS-2022)” organized (online) by Department of Mathematics, BITS Pilani - Pilani Campus (Rajasthan) during March 19-21, 2022.
- Presented the research paper entitled “*Influence of Magnetic Field on Micropolar Fluid Flow in a Cylindrical Tube Enclosing an Impermeable Core Coated with Porous Layer*” in the National conference entitled “New Challenges Emerging in Mathematical Sciences” organized by Banaras Hindu University, Varanasi (Uttar Pradesh) during February 06-07, 2021.
- Presented the research paper entitled “*MHD Effects on Micropolar-Newtonian Fluid Flow Through a Composite Porous Channel*” in the international conference entitled “Membrane Process Modeling (MPM-2020)” organized (online) by Department of Higher Mathematics, Gubkin Russian State University of Oil and Gas, Moscow, Russia during December 03-04, 2020.
- Presented the research paper entitled “*Generalized Stream Function of the Brinkman Equation in the Cylindrical-Polar Co-ordinates*” in the National conference entitled “Recent Trends in Mathematics and Their Applications” organized by Shri Ramswaroop Memorial University, Lucknow (Uttar Pradesh) during February 21-22, 2019.
- Presented the research paper entitled “*Stream Function Solution of the Brinkman Equation in Parabolic Cylindrical Co-ordinates*” in the International conference entitled “Mathematical Modeling and Computations” organized by South Asian University, Chanakyapuri (Delhi) during December 01-03, 2018.

Attended/participated in the workshops and seminars:

- Participated in One Day International Seminar on “*Transforming Youth Skills for Future 2022 and Academic Excellence Award*” organized by Center for Professional Advancement Continuous Education (CPACE), Vijayawada (Andhra Pradesh) on July 22, 2022.
- Participated in One Day National Seminar on “*Integrated Approach in Research & Development for Sustainable Future and Academic Excellence Award*” organized by International Multidisciplinary Research Foundation (IMRF), Vijayawada (Andhra Pradesh) on May 14, 2022.
- Participated in Two Days Workshop on “*National Assessment and Accreditation Council (NAAC)*” organized by Veer Bahadur Singh Purvanchal University, Jaunpur (Uttar Pradesh) during May 13, 2022 - May 14, 2022.

- Participated in Two Days Workshop on “*Outcome Based Education*” organized by Veer Bahadur Singh Purvanchal University, Jaunpur (Uttar Pradesh) during April 22, 2022 - April 23, 2022.
- Participated in the workshop entitled “*MATHEMATICA as a Teaching Aid*” organized by IIT, Roorkee (Uttarakhand) during *June 10-14, 2019*.
- Participated in the workshop entitled “*Applications of MATLAB in Science and Technology*” organized by Motilal Nehru National Institute of Technology, Prayagraj (Uttar Pradesh) during *April 01-05, 2019*.
- Participated in the National workshop entitled “*Advances in Applications of Computational Fluid Dynamics*” organized by Motilal Nehru National Institute of Technology, Prayagraj (Uttar Pradesh) during *March 06-11, 2019*.
- Participated in the NCM workshop entitled “*Continuum Mechanics: Principles and Applications*” organized by Panjab University, Chandigarh (Punjab) during *November 19-24, 2018*.
- Participated in the GIAN short term course entitled “*Role of Fluid Flow and Mass Transport in Porous Media for Design of Chemical Reactors for Groundwater Remediation*” organized by IIT, Guwahati (Assam) during *August 20-24, 2018*.
- Participated in the national seminar entitled “*Higher Education and Job Opportunities in Rural Areas*” organized by Pt. R.L.S. Govt. P.G. College, Alapur Ambedkar Nagar (Uttar Pradesh) on *February 28, 2018*.
- Participated in the GIAN short term course entitled “*Introduction to Mathematical Theory of Complex Fluids*” organized by NIT, Kurukshetra (Haryana) during *November 17-22, 2017*.
- Participated in the GIAN short term course entitled “*Monotone Iterative Techniques*” organized by IIT, Patna (Bihar) during *November 05-11, 2017*.

Date: 27.08.2022

Place: Jaunpur (U.P.)