

Curriculum Vitae

University Topper

Award: University Gold Medal

(By Honorable Ex. President of India Shri Ram Nath Kovind)



Vikas Chaurasiya (V C)

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Permanent Residencial Address

Vill. - DEWALPUR;

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INDIA

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Educational Profile

Qualification	Board / University / Institute	Year	Grade/Percentage
Intermediate	UP BOARD	2010	67%
B.Sc.	D RM L A UNIVERSITY, Ayodhya, India	2013	72.50%
M.Sc.	BBA CENTRAL UNIVERSITY, LUCKNOW (A+)	2016	A+/ 94.69%
CCC	NEILIT, New Delhi, India	2013	C grade
C Programming	Study Section	2020	Pass
PhD in Mathematics (Pursuing)	Banaras Hindu University, Varanasi, India	2018	

PhD Course work	Banaras Hindu University, Varanasi, India	2019	72.2%
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National Level Exam Qualified:

NET (UGC-CSIR): JUNE and DEC 2017

GATE: FEB 2018

DST (INSPIRE) FELLOW: JUNE 2018

(BY MINISTRY OF SCIENCE&TEC. NEW DELHI)

National Level award:

- Received University Gold Medal by Hon. President of India, Shri Ram Nath Kovind: 15 December 2017
 - Junior Research Fellow (JRF) by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India: 23 June 2018.
 - Senior Research Fellow (SRF) by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India: 23 June 2020.
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Professional Details

BBA University Student Council member : 2016

Online teaching experience (Subject Matter Expert) : Chegg, Course Hero.

Qualifications: M. Sc. (Applied Mathematics)

Skills: Teaching and Research

Online teaching experience: 3 years

Research experience: More than 4 years

Personal Informations

Father's name: Ram Bahadur Chaurasiya

Mother's name: Sarita Devi

Place of Birth: Dewalpur (UP); **DOB:** 10 Sept. 1992

Gender: Male

Marital Status: Single; **Nationality:** Indian

Language known: Hindi, English, Sanskrit

Research activity

Area of Interest: Moving Boundary Problem, Heat and Mass transfer, Fin Problems, Bio heat transfer, Fluid dynamics, Differential Eqs. and Numerical Techniques.

PhD Topic: Mathematical description of moving boundary problem involving heat and mass transfer models arising in Science and Engineering

(Mathematical Modeling, Heat and Mass Transfer, Numerical methods, PDE)

Computing software known: MATLAB and MATHEMATICA

Research writing software known: LATEX

Papers Presentation in National/International conference

- 1) Paper entitled “**Numerical Stability of Various Schemes**” presented in a National conference on [MATHEMATICAL TECHNIQUES IN ENGINEERING AND TECHNOLOGY \(MTET\)](#) held on dated 30-31 March, 2016, organized by Department of Applied Mathematics, BBAU, Lucknow.
- 2) Paper entitled “**A numerical approach to solve one-phase moving boundary problem in cylindrical geometry**” in an International conference on [APPLIED MATHEMATICS & COMPUTATIONAL SCIENCES](#) held on dated 17-19 October, 2020, organized by Department of Mathematics, DIT University, Uttarakhand.
- 3) Paper entitled “**A heat-transfer analysis for freezing of a material with extended freezing temperature range**” in an International conference on [MATHEMATICAL MODELING, APPLIED ANALYSIS AND COMPUTATION-2020 \(ICMMAAC-20\)](#) held on dated 07-09 August, 2020, organized by Department of Mathematics, Faculty of Science, JECRC University, Jaipur.
- 4) Paper entitled “**An approximate study to inward melting of a phase change material in presence of convection**” in an International conference on [MATHEMATICAL MODELING, APPLIED ANALYSIS AND COMPUTATION-2019 \(ICMMAAC-19\)](#) held on dated 08-10 August, 2019, organized by Department of Mathematics, Faculty of Science, JECRC University, Jaipur.
- 5) Paper entitled “**A study of three-phase moving boundary problem describing solidification of a eutectic alloy**” presented in a National conference on [NEW CHALLENGES IN MATHEMATICAL SCIENCES \(NCEMS-2021\) held on 06-07 February 2021](#), organized by Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi.

Program(s)/Workshop(s)/Conference attended:

- 1) Participated in a 3rd Lucknow Science Congress and National conference on [Science for Society: An Interdisciplinary Approach](#), on dated 31 October-2 November, 2015, organized by BBA central University Lucknow.

- 2) Participated in a National conference on [RECENT ADVANCES IN MATHEMATICS AND APPLICATIONS \(NCRAMA-2014\)](#), held on dated 30-31 October, 2014, organized by Department of Applied Mathematics, BBAU, Lucknow.
 - 3) Participated in a National workshop on [Advance Mathematics and Its application in engineering & Science](#), on dated 16 May, 2020, organized by Department of Mathematics, Indore.
 - 4) Participated in a National workshop on [Computational method for integral and differential equations](#), held on dated 10-16 December, 2018, Department of Mathematical Sciences, IIT (BHU), Varanasi.
 - 5) Participated in a National workshop on [Exploring some applications of Mathematical sciences](#), held on dated 19-20 January, 2019, organized by Department of Mathematics, Institute of science, Banaras Hindu University, Varanasi.
 - 6) Participated in a National workshop on [Study and Analysis of Mathematical Models of Moving Boundary Problems](#), held on dated 28 January 2022, organized by Department of Mathematical Sciences, IIT (BHU), Varanasi.
 - 7) Participated in a National workshop on [One Day Seminar on Mathematical Methods in Science and Engineering](#), held on dated 26 february 2022, organized by Department of Mathematics, Pandit Deendayal Energy University.
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Reviewer profile:

1. Reviwer in [International Journal of Heat and Mass Transfer](#) (Elsevier), SCI Q1.
2. Reviewer in [Waves in Random and Complex Media](#) (Taylor and Francis) SCI Q1.
3. Reviewer in [Materials Today: Proceeding](#) (Elsevier), Scopus.
4. Reviwer in [International Communication in Heat and Mass Transfer](#) (Elsevier), SCI Q1.

Research recognition links:

1. Google Scholar https://scholar.google.com/citations?user=KCVPO_4AAAAJ&hl=en
2. ResearchGate <https://www.researchgate.net/profile/Vikas-Chaurasiya-2>
3. LinkedIn https://in.linkedin.com/in/vikas-chaurasiya-934862213?trk=public_profile_browsemap
4. Orcid id <https://orcid.org/0000-0002-1070-201X>
5. Scopus id [57218501572](#)

Research articles:

1. Vikas Chaurasiya, Dinesh Kumar, K N Rai, Jitendra Singh. A computational solution of a phase-change material in the presence of convection under the most generalized boundary condition, *Thermal Science and Engineering Progress*, 20 (2020) 100664. <https://doi.org/10.1016/j.tsep.2020.100664> (SCI Indexing, IF 4.56)
2. Vikas Chaurasiya, K N Rai, Jitendra Singh. Heat Transfer analysis for the solidification of a binary eutectic system under imposed movement of the material. *Journal of Thermal Analysis and Calorimetry*. Vol. 147, pp. 3229–3246 (2022) <https://doi.org/10.1007/s10973-021-10614-8> (SCI Indexing, IF 4.77)
3. Vikas Chaurasiya, K N Rai, Jitendra Singh. A study of solidification on binary eutectic system with moving phase change material. *Thermal Science and Engineering Progress*. Vol. 25, 2021, 101002 <https://doi.org/10.1016/j.tsep.2021.101002> (SCI Indexing, , IF 4.56)
4. Vikas Chaurasiya, Dinesh Kumar, K N Rai, Jitendra Singh, Heat transfer analysis describing freezing of a eutectic system by a line heat sink with convection effect in cylindrical geometry, *Zeitschrift für Naturforschung A*. Vol. 77, no. 6, 2022, pp. 589-598 <https://doi.org/10.1515/zna-2021-0320> (SCI Indexing, IF 1.77)
5. RK Chaudhary, V Chaurasiya, MM Awad, J Singh, A numerical study on the thermal response in multi-layer of skin tissue subjected to heating and cooling procedures, *The European Physical Journal Plus*. Vol. 137, 120 (2022) <https://doi.org/10.1140/epjp/s13360-021-02322-x>) (SCI Indexing, IF 3.7)
6. Vikas Chaurasiya, S. Upadhyay, K.N. Rai, J Singh, A new look in heat balance integral method to a two dimensional Stefan problem with convection, *Numerical. Heat Transfer Part A: Applications*. <https://doi.org/10.1080/10407782.2022.2079829> (SCI Indexing, IF 2.5)
7. RK Chaudhary, V Chaurasiya, J Singh, Numerical estimation of temperature response with step heating of a multi-layer skin under the generalized boundary condition, *Journal of Thermal Biology*. <https://doi.org/10.1016/j.jtherbio.2022.103278> (SCI Indexing, IF 3.1)
8. V Chaurasiya, RK Chaudhary, MM Awad, J Singh. A numerical study of a moving boundary problem with variable thermal conductivity and temperature dependent moving PCM under periodic boundarycondition. *European Physical Journal Plus*. <https://doi.org/10.1140/epjp/s13360-022-02927-w> (SCI Indexing, IF 3.7)
9. V Chaurasiya, RK Chaudhary, A. Wakif, J Singh. A one-phase Stefan problem with size-dependent thermal conductivity and moving phase change material under the most generalized boundary condition. *Waves in Random and Complex media*. (SCI Indexing, IF 4.05)
10. V Chaurasiya, J Singh, An analytical study of coupled heat and mass transfer freeze-drying with convection in a porous half body: A moving boundary

problem. *Journal of Energy Storage*, Vol. 55, Part A, 2022, 105394, <https://doi.org/10.1016/j.est.2022.105394> (SCI Indexing, IF 8.907)

11. V Chaurasiya, A. Wakif, NA Shah, J Singh, A study on cylindrical moving boundary problem with variable thermal conductivity and convection under the most realistic boundary conditions. *International Communication in Heat and Mass Transfer*, Vol. 138, November 2022, 106312. <https://doi.org/10.1016/j.icheatmasstransfer.2022.106312> (SCI Indexing, IF 6.782)

Declaration.

I confirm that all the above stated particulars in this Resume are true to the best of my knowledge and that I can provide documentary evidence to verify all the given information .

Place: Varanasi
Date: 28/08/2022



Vikas Chaurasiya