

## CURRICULUM VITAE

### Dr. Vinod Chandra

Assistant Professor

Department of Mathematics

Dr. Shivanand Nautiyal Govt. P. G. College Karanprayag  
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**RESEARCH INTEREST:** Differential Geometry and its Applications.

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#### CARRIER OBJECTIVE:

To work with an organization that can provide me an innovative and pleasant working and in which I can fully utilize my capabilities for the growth of the organization as well as any future.

#### PRESENT STATUS:

Working as an **Assistant Professor** in the Department of Mathematics, **Dr. Shivanand Nautiyal Government P. G. College Karanprayag (Chamoli), Uttarakhand**

**TEACHING EXPERIENCE:** Total: 4 years 4 months ( 3 years 3 months ( Govt.) and 1 year 1 month (Private))

1. Worked as an **Assistant Professor** in the Department of Mathematics, **Dhanauri P. G. College Dhanauri, Haridwar, an Uttarakhand Govt. Aided College**, affiliated to Sri Dev Suman Uttarakhand University Badshahithaul (Tehri garhwal), from 20 October 2022 to 03 August 2024.
2. Worked as an **Assistant Professor** in Department of Mathematics, School of Applied and Life Sciences (SALS), **Uttaranchal University Dehradun (NAAC A+)**, Uttarakhand, from 24 august 2021 to 19 October 2022.
3. Other than Science Stream, also taught **B. Tech.** classes, in Uttarakhand Institute of Technology (UIT), Uttarakhand University, Dehradun (NAAC A+).
4. Taught B.Sc. /M.Sc. (Pure and Applied Mathematics) classes in H.N.B.G.U., S.R.T. Campus Badshahithaul Tehri Garhwal, from June 2018 to Feb 2021 (online & offline mode).

## EDUCATION:

- **Ph.D.** (Mathematics): “A Study on Distinct Structures of Infinite Differentiable Manifolds”, from Hemwati Nandan Bahuguna Garhwal University (a Central University), Srinagar Garhwal, Uttarakhand (**2021**).
- **M.Sc.** (Mathematics): Govt. P. G. College Gopeshwar, affiliated to HNBGU, Srinagar Garhwal, Uttarakhand (**2017**).
- **B.Ed.:** Govt. P. G. College Gopeshwar, affiliated to HNBGU, Srinagar Garhwal, Uttarakhand (**2015**).
- **B.Sc (PCM):** Government P. G. College Gopeshwar, affiliated to HNBGU, Srinagar Garhwal, Uttarakhand (**2014**).
- **Inter:** Government Inter College Nandprayag (Chamoli), Uttarakhand Board (**2011**).
- **High School:** G. J. H. S. S. Thirpak (Chamoli), Uttarakhand Board (**2009**).

## PUBLICATIONS:

1. **Vinod Chandra** and Shankar Lal: On Lorentzian Para-Kenmotsu Manifolds Within the Framework of Zamkovoy Canonical Paracontact Connection, *GANITA*, 74(2), pp. 143-154, (2025 (UGC)).
2. Vikas Kumar, Vanshikha Jain, Garima Tomar, N.S. Chauhan, **Vinod Chandra, Shankar Lal**: Application of Leslie Matrix Model in Human Population Dynamics and Public Health, *The South Eastern European Journal of Public Health (SEEJPH)*, XXV (S2), pp. 444-459, (2024 (Scopus)).
3. **Vinod Chandra** and Shankar Lal: Eta-Ricci Soliton on Lorentzian Para-Kenmotsu Manifold, *Balkan Journal of Geometry and its Applications (BJGA)* (Scopus), 26(2), pp.33-43, (2021)
4. **Vinod Chandra** and Shankar Lal: On Conformal and Almost Conformal Ricci Solitons Concerning Lorentzian-Trans-Sasakian Manifolds, *GANITA*, 71(1), pp. 33-43, (2021 (UGC)).
5. **Vinod Chandra** and Shankar Lal: On 3-Dimensional Lorentzian Para-Kenmotsu Manifolds, *Differential Geometry-Dynamical Systems (DGDS)*, 22, pp.87-94, (2020) (Scopus).

6. **Vinod Chandra** and Shankar Lal: Almost Product Structure on Differentiable Manifold with Nijenhuis Tensor, *International Journal of Scientific and Technology Research*, 8(9), pp. 2279-2281, (2019)(Scopus).
7. **Vinod Chandra** and Shankar Lal: Generic Submanifolds of Quaternion Kaehler Manifold, *International Journal of Statistics and Applied Mathematics*, 5(6), pp. 111-118, (2021)(Peer reviewed).
8. **Vinod Chandra** and Shankar Lal: On Lorentzian Almost Para-Contact Manifold, *Journal of Mountain Research*, 16(3), pp. 71-78, (2021)(Web of Science).
9. **Vinod Chandra** and Shankar Lal: HGF-Structure Manifold with Nijenhuis and Curvature Tensor, *Journal of Xidian University*, 14(3), pp.915-928, (2020 (Scopus UGC)).
10. **Vinod Chandra** and Shankar Lal: On Sasakian Manifolds with a G-Tanaka Webster Connection, *JICR*, IX(XII), pp.1621-1633, (2019)(Scopus UGC).
11. **Vinod Chandra**: On Lorentzian Para-Kenmotsu Manifolds within the framework of Zamkovoy Canonical Paracontact Connection, *GANITA*, 74(2), pp. 143-154, (2024) (UGC).
12. Vikas Kumar, Vanshika Jain, Garima Tomar, N. S. Chauhan, **Vinod Chandra** and Shankar Lal: Application of Leslie Matrix Model in Human Population Dynamics and Public Health, *SEEJPH*, 25(2), (2024)(Scopus).
13. Shankar Lal and **Vinod Chandra**: Geometrical Stress Tensor of the Radiation Fluctuation and Quantum Gravity (*Communicated*).
14. **Vinod Chandra**: Almost eta-Ricci solitons on LP-Kenmotsu manifolds (*Communicated*).
15. **Vinod Chandra**: Eta-Ricci Solitons on Para-Sasakian Manifolds, (*Communicated*).

#### **BOOK CHAPTERS:**

1. **Vinod Chandra**, On Hyperbolic HSU-Structure Metric Manifold, **Book entitled-** Promoting the Advancement of Applied Sciences, ISBN: 978-93-87229-44-0, edition-2020, pp.134-145.
2. **Vinod Chandra** and Vikas Kumar, Conformal Ricci Soliton on Lorentzian Para Kenmotsu Manifolds, **Book entitled-**Research Trends in Mathematics and Statistics, ISBN: 978-93-5570-214-2, edition-2022, Vol-17, pp.17-23.
3. **Vinod Chandra**, A Study on Generalized Ricci Solitons on LP-Sasakian Manifolds, **Book entitled-** Futuristic Trends in Contemporary Mathematics & Applications Volume 3 Book 2, ISBN: 978-93-6252-737-0, edition- May 2024, pp.31-36.

## PROFESSIONAL DEVELOPMENT PROGRAMMES:

1. **Advanced Refresher Course (Mathematics)**, Successfully Completed a 15 days Advance Refresher Course conducted at the Indian Institute of Science (IISc) Bangalore, Challakere Campus at Khudapura, from August 15-August 30, 2025.
2. **Orientation Programme**: Successfully completed a 4-week faculty Induction Training/ Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education, conducted by Teaching Teaching Learning Centre Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC) from February 20-March 21, 2023.
3. **Academic Enrichment Program (AEP)** on “Understanding Cybercrime and Safeguards in the Contemporary Times” Nov 10-Nov 14, 2025, Organized by Late Shri Jai Dutt Wallia Govt. P.G. College, Ranikhet, Uttarakhand.
4. **Faculty Development Program (FDP)**, on, “**From Numbers to Intelligence: Matrix Applications in AI & ML**”, Dec 16-Dec 22, 2025, Organized by Department of Mathematics, Jaypee University of Information Technology, Waknaghat Solan, HP, INDIA (UGC Approved University under Section 2(f) of UGC Act 1956).
5. **International Faculty Development Programme**, on “**Critical Insights On Vision And Readiness For Adopting NEP-2020 By Heis**”, Feb 7-11, 2022, Organized by Maharishi University of Information Technology Lucknow-226013.
6. **International Faculty Development Program (FDP)**, on **Enhanching Research and Innovation in Higher Education Through AI**”, Jul 8- Jul 21, 2025, organized by Bhargava Foundation for Research and Education Dhanbad Jharkhand in association with B.B. Kishan College and Department of Home Science Govt Bilasa Girl’s P.G. College Bilaspur (CG).
7. **Faculty Development Program (FDP)**, on “National Education Policy-2020 Challenges & Opportunities” Organized by Teaching Teaching Learning Centre Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC) from June 25- July 01, 2023.
8. **Faculty Development Program (FDP)**, on **R-Language**”, organized by DBIT Dehradun.
9. **Faculty Development Program (FDP)**, On **MATLAB & AI & ML**”, organized by Sri Dev Suman Uttarakhand University Badshahithaul (Tehri Garhwal) from 16-21 august 2023.
10. **Faculty Development Program (FDP)**, On **Academic Writing Enhanching Scholarly Skills**”, organized by Sri Dev Suman Uttarakhand University Badshahithaul (Tehri Garhwal).

11. **International Faculty Development Programme**, on “**Mathematical Modeling in Multidisciplinary Domain**” organized by Dept. of Mathematics, Bannari Institute of Technology from 1 June to 7 June 2020.
12. **Faculty Development Programme (FDP)**, on “**Post Covid 19 Challenges in Science & Technology**” held on 15-20 June 2020 by Faculty of Engineering and technology Jain university Karnataka.

### **CONFERENCE/WORKSHOP/ SEMINAR**

- Participated and Presented a paper on “**Certain results on 3-dimensional K-contact Manifolds**” at the **International e-conference on Recent Developments in Pure and Applied Mathematics (RDPAM2025)** held during 13-14 November 2025, organized by Department of Mathematics & IQAC, Government Degree College Chakrata (Dehradun), India in collaboration with Department of Mathematics, Pt. L. M. S. Campus Sri Dev Suman Uttarakhand University, Rishikesh, India.
- **Coordinated** a Technical Session at the **International e-conference on Recent Developments in Pure and Applied Mathematics (RDPAM2025)** held during 13-14 November 2025, organized by Department of Mathematics & IQAC, Government Degree College Chakrata (Dehradun), India in collaboration with Department of Mathematics, Pt. L. M. S. Campus Sri Dev Suman Uttarakhand University, Rishikesh, India.
- Participated and Presented a paper on “**Geometric Properties of LP-Kenmotsu manifold admitting Quarter Symmetric metric Connection**” in **3<sup>rd</sup> International Conference on "Computation and Mathematical Methods in Applied Sciences"** April 25-26, 2025, Organized by School of Applied and Life Sciences (SALS), Uttarakhand University Dehradun, Uttarakhand-India.
- Attended five day national workshop on “**Differential Equations**”, 04-08 Feb 2025, organized by Department of Mathematics, IIT-Roorkee, Uttarakhand.
- Participated and Presented a paper on “**Almost Ricci solitons on LP-Kenmotsu manifolds**” in **1<sup>st</sup> International Conference on "Computation and Mathematical Methods in Applied Sciences"** March 30-31, 2023, Organized by School of Applied and Life Sciences (SALS), Uttarakhand University Dehradun, Uttarakhand-India.
- Participated and Presented a paper on “**On Lorentzian Para-Kenmotsu Manifolds within the framework of Zamkovoy Canonical Paracontact Connection**” in **International Conference on "Differential Geometry and Relativity"** May 18-20, 2023, Organized by Department of Mathematics, SSJ University, Almora and Department Of Applied Sciences, BKIT, Dwarahat, Uttarakhand-India.
- Participated and Presented a paper on “ **$\eta$ -Ricci solitons on Lorentzian Para-Kenmotsu manifolds**”. **27<sup>th</sup> International Conference on "Recent Advances In Differential Geometry And Topology"** October 26-28, 2021, Organized by

Department of Mathematics and Statistics, Central University Of Punjab, Bathinda-India.

- Participated and Presented a paper on “Almost Product Structure on Differentiable Manifold with Nijenhuis Tensor” in “**International Conference on Functional Materials and Simulation Techniques (ICFMST-2019)**”, June 7-8, 2019, Organized by University Institute of Sciences (UIS), Chandigarh University.
- Participated and presented a paper on “On Sasakian Manifolds with a G-Tanaka Webster Connection ” in “**International Conference on Applied Mathematics & Computational Sciences**”, October 17-19, 2019, Organized by Department of Mathematics DIT University Dehradun Uttarakhand.
- Participated and presented a paper on “HGF-Structure Manifold with Nijenhuis and Curvature Tensor” in “**National conference on Promoting the Advancement of Applied Sciences**”, October 22-23,2019, organized by Department of Mathematics, HNBGU, S. R. T. Campus Badshahithaul Tehri Garhwal and awarded by “Best Oral Presentation award”
- Participated in “**National Seminar on Promotion of Academic Integrity and Prevention of Plagiarism**” organized by Central Library University of petroleum and energy studies Dehradun (UPES), Dec. 2019.
- Attending five day national workshop on “**Technical Document Preparation using LATEX**” , 8-13 June 2020 by Dr. S. & S. S. Ghandhy Government Engineering College, Surat (Under Directorate of Technical Education).
- Completing Two days National Level online Workshop on “**Smartway to Prepare Thesis & Get Organised with Gmail**” organized by south Gujarat pradhyapak pushtak prakashan sahakari mandali Ltd., Surat, Gujarat conduct on 19-20 june 2020.
- Participated in “**International web conference on complex Analysis and Differential Geometry: Revisiting (IWCADGR-2020)**” June 29-30, 2020.
- Online national quiz on “**Vedic Mathematics**” organized by Dept. of Mathematics, School of Applied and Life Science, Uttaranchal University Dehradun on june 20-21, 2020.

#### **PROFESSIONAL ACTIVITIES:**

- **BOS Member**, Department of Mathematics, School of Applied and Life Sciences, Uttaranchal University Dehradun (NAAC A+) (Uttarakhand).
- **NAAC Criteria-3 member**, School level in School of Applied and Life Sciences, Uttaranchal University Dehradun (NAAC A+) (Uttarakhand).

- **Slow and Advance learner Coordinator**, Department of Mathematics, School of Applied and Life Sciences, Uttarakhand University Dehradun (NAAC A+) (Uttarakhand).
- **Summer Internship member secretary**, School level in School of Applied and Life Sciences, Uttarakhand University Dehradun (Uttarakhand).
- **Member of the organizing committee**, “National conference on Promoting the Advancement of Applied Sciences”, Organized by Department of Mathematics, HNBGU, S. R. T. Campus Badshahithaul Tehri Garhwal, **October 22-23, 2019**.
- Prepared **Book of Abstract**, “National conference on Promoting the Advancement of Applied Sciences”, Organized by Department of Mathematics, HNBGU, S. R. T. Campus Badshahithaul Tehri Garhwal, **October 22-23,2019**.
- **Technical Program Committee member** in “International Conference on Intelligence System (ICIS-2022)”, Organized by Uttarakhand Institute of Technology, Uttarakhand University, Dehradun, Uttarakhand, March 11-12, 2022.
- **Teaching B. Tech 1<sup>st</sup> and 2<sup>nd</sup> year**, in Uttarakhand Institute of Technology (UIT), Uttarakhand University, Dehradun (Other than SALS).

5. **Teaching B.Sc. and M.Sc.** Students, in H.N.B.G.U., S.R.T. Campus Badshahithaul Tehri Garhwal, from June 2018 to Feb 2021 (online & offline mode as a research Scholar, taking 5 classes per week regularly).

- Help the Department of Mathematics in different activities organized in the department and School level, in Uttarakhand University Dehradun.

#### **RELEVANT / TECHNICAL SKILLS:**

- LATEX, MATLAB, Mathematica, M.S.OFFICE, R-Language, Windows.
- Fluent in English and Hindi.

#### **PERSONAL DETAILS:**

Name	:	Dr. Vinod Chandra
Father's Name	:	Mr. Balbir Lal
Date of Birth	:	02 July, 1994.
Permanent Address	:	Vill- Bherani, Post- Sakand, Distt-Chamoli Uttarakhand, Pin-246449
Sex	:	Male
Marital Status	:	Unmarried
Nationality	:	Indian
Language Known	:	Hindi & English

## HOBBIES & TENDENCIES:

- Teaching.
- Reading books of scientific and philosophical.
- Discussing ethical issues.
- Tackling society problems (scientific and nonscientific)
- Listening music & Playing cricket.

**Nature :** Cooperative, Supportive, Responsible, Professional, Adaptable, Impressive.

**Personal Belief :** Work is worship, Discipline and commitment give rise to creativity, Rise in dedication.

**Strengths :** Confident, Honest, Hardworking, Optimistic, Goal oriented, Good Communication Skills.

## REFERENCES

Dr. Shankar Lal	Associate Professor, Department of Mathematics HNBGU, S.R.T. Campus, Badshahithaul, Tehri Garhwal Con. No.- 941131602, Email: <a href="mailto:shankar_alm@yahoo.com">shankar_alm@yahoo.com</a> . (Supervisor)
Dr. R. C. Dimri	Professor and Former Dean of Sciences, HNBGU (A central University) Srinagar Garhwal Uttarakhand. Contact No.: +91-9412965058, Email: <a href="mailto:dimirc@gmail.com">dimirc@gmail.com</a>

## DECLARATION

I hereby certify that the all the information furnished above are correct and complete to the best of my knowledge and belief.



(Dr. Vinod Chandra)