

**Name:** Pradeep Kumar Pandey

**Designation:** Assistant Professor (Senior Grade)

**Contact Information:**

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**Educational information:**

- Ph.D. (Differential Geometry), Jamia Millia Islamia (Central University), New Delhi, (2009) Awarded.
- M. Sc. (Mathematics), D.D.U. Gorakhpur University, First division, (2003).
- B. Sc. (PCM), D.D.U. Gorakhpur University, First division (2001).
- Intermediate, U.P. Board, First division (1998).
- High School, U.P. Board, First division (1996).

**Others:**

- Qualified HPPSC State Eligibility Test (2018).

**Teaching Experience:** More than 12 years of (post-Ph.D.) Teaching Experience at the university level:

- Assistant Professor (Senior Grade), Department of Mathematics, JUIT Waknaghat, Solan, H.P. Since 1<sup>st</sup> February 2015.
- Assistant Professor (Grade II), Department of Mathematics, JUIT Waknaghat, Solan, H.P. Since 1<sup>st</sup> August 2013 to 31<sup>st</sup> January 2015.
- Lecturer / Assistant Professor (Grade I), Department of Mathematics, JUIT Waknaghat, Solan, H. P. Since 17<sup>th</sup> January 2011 to 31<sup>st</sup> July 2013.
- Lecturer, Department of Mathematics, Amity University Noida. Since 1<sup>st</sup> December 2009 to 14 January 2011.

**Research interests:**

- Differential Geometry.
- Geometry of Submanifolds.

**Courses taught:**

- UG level: Discrete Mathematics (Relations, Mathematical logic, Graphs, Trees, Algebraic structures), Mathematics I (Calculus, Differential Equations, Matrices), Mathematics II (Infinite Series, Solutions of DEs in series, Complex Analysis).
- PG/Ph.D. level: Differential Geometry, Mathematical Analysis.

**Ph.D. guidance:**

- One (Completed).

**Administrative and other Responsibilities:**

- Warden (Azad/Shastri Boys Hostel), 01/04/2019 -12/12/2021.
- Departmental Faculty coordinator- NAAC (2016-2017, 2017-2018).
- Departmental Faculty coordinator-NIRF (2019-20, 2020-21, 2021-22).
- Faculty Coordinator-Alumni Affairs Committee - JYC (2016-2017).
- Departmental Faculty Coordinator-Alumni Affairs Committee (2020-21, 2021-22).
- Departmental Annual Report coordinator.
- Faculty Coordinator-Literary Club & Reverie Magazine-JYC (2015-16).
- Member of the Board of Studies (BoS).
- Member of Ph.D. DPMC.

**Design of new curricula:**

- Designed curriculum of “Differential Geometry (17P1WMA111)” for Ph.D. Mathematics (I Semester, 2017-18 course work), Jaypee University of Information Technology, Waknaghat, Solan.
- Designed curriculum of “Mathematical Analysis (13P1WMA232)” for Ph.D. Mathematics (II Semester, 2018-19 course work), Jaypee University of Information Technology, Waknaghat, Solan.

## **Publications:**

1. Sameer Mohammad, and Pradeep Kumar Pandey: On the adapted connections on Kaehler-Norden silver manifolds, Honam Mathematical Journal 43(4), pp. 701–715 (2021). Indexed in ESCI. ISSN: 2288-6176.
2. Sameer, and Pradeep Kumar Pandey: On contact CR-Submanifold of a Kenmotsu manifold with killing tensor field; Kragujevac Journal of Mathematics, 47(1), pp 95-104. Indexed in WoS/ESCI, Scopus, ISSN: 2406-3045, (Published online 19/08/2020).
3. Pradeep Kumar Pandey, and Sameer Mohammad: Magnetic and slant curves in Kenmotsu manifolds; Surveys in Mathematics and its Applications, 15, pp 139-151 (2020). Indexed in Scopus, ISSN: 1842-6298.
4. Sameer, and Pradeep Kumar Pandey: Copper differential geometry; AIP Conference Proceedings 2214, 020012 (2020); <https://doi.org/10.1063/5.0003357>, Indexed in Scopus, ISSN: 1551-7616, (Published Online: 18/03/2020).
5. Pradeep Kumar Pandey and Sameer: Bronze differential geometry; Journal of Science and Arts, 4(45), pp 973-980 (2018). Indexed in ESCI/WoS.
6. Pradeep Kumar Pandey: Physical applications of the geometry of differentiable manifolds, AIP Conference Proceedings 1802, 020012 (2017); doi: 10.1063/1.4973262.
7. Susheel Kumar, Kirandeep Bala, Pradeep Kumar Pandey: Logarithmic Order of Entire Monogenic Functions. Mathematical Sciences International Research Journal, Vol. 3 (1) pp. 175-179, (2014).
8. Pradeep Kumar Pandey: On the Differentiability of Multivariable Functions, IOSR Journal of Mathematics, Vol. 8 (2) (2013), 81-86.
9. Pradeep Kumar Pandey: On contact slant submanifolds in Kenmotsu space forms, IOSR Journal of Engineering, Vol. 2 (2012).
10. Pradeep Kumar Pandey, R. S. Gupta & A. Sharfuddin: B. Y. Chen's inequalities for bi-slant submanifolds in Kenmotsu Space forms, Demonstratio Mathematica; XLIII (4) 2010.
11. Pradeep Kumar Pandey, R. S. Gupta: Existence and uniqueness theorem for slant immersions in Kenmotsu space forms, Turkish Journal of Mathematics; 33 (2009).

12. Pradeep Kumar Pandey, R. S. Gupta: Characterization of a slant submanifold of a Kenmotsu manifold, *Novi Sad J. Math*; 38(1), (2008).
13. R. S. Gupta, Pradeep Kumar Pandey: Structure on a slant submanifold of a Kenmotsu manifold, *Differential-Geometry - Dynamical systems*; 10, (2008).

**Paper presentation in international conferences:**

- Presented a paper “A note on the Silver Hessian Structure”, and participated in the international conference on “Recent advances in differential geometry and Topology”, CUP, Bathinda, October 26-28, 2021.
- Presented a paper “On the Adapted connections on Kaehler-Norden Silver manifolds”, international conference on- Advances in Topology and Differential Geometry organized by Department of Mathematics, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), December 18-20, 2020.
- Presented a paper “The geometry of golden ratio in vedic mathematics” and participated in the international e-conference on Emerging Trends in Vedic Mathematics and Applications in Science, Technology, Social Sciences Research (ETVM-ASTSSR-2020), organized by Special Centre for E-Learning, Jawaharlal Nehru University, New Delhi, August 16-17, 2020.
- Presented a paper “Bronze differential geometry” in the National Conference on Differential Geometry and Its Applications, Nehru Gram Bharti, Allahabad, U.P.; August 3-5, 2018.
- Presented a paper “Holomorphic Functions on Manifolds” and participated in the international conference on Mathematical Sciences and Applications (ICMSA-2018), organized by Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur, Chhattisgarh, February 23-25, 2018.
- Presented a paper “Physical Applications of the Geometry of Differentiable Manifolds” in the international conference (RAMSA-2016), organized by Department of Mathematics, 8-10 December 2016, IIIT Noida.
- Presented a paper on “B. Y. Chen’s ... space forms” in the International Conference on Recent Trends in Mathematics and its Applications (ICRTMA-09), March 31, 2009, organized by Department of Mathematics, Jamia Millia Islamia, New Delhi.

- Presented a paper (orally) in the INFOFEST March 4-6, 2008, organized by Faculty of Natural Science, JMI, New Delhi.

### **Book Publication:**

Lecture Notes in Discrete Mathematics, Pradeep Kumar Pandey; ISBN: 978-613-7-34497-2, Lambert Academic Publishing, 2019.

### **Faculty Development Programmes:**

- Attended one-week online Faculty Development Programme organized by UGC-HRDC University of Allahabad, 5-11 August 2020.
- Attended one week Faculty Development Programme at JUIT organized by JUIT, 14-19 July 2014.

### **Conference, Workshop, Refresher Course etc.:**

- Participated in “NASI-TMC Summer School on Differential Geometry” organized by the National Academy of Sciences, & CUP Bathinda, July 05-24, 2021.
- Attended (online) 4<sup>th</sup> Iranian Conference on Computational Geometry (ICCG-2021), organized by Yazd University, Iran, 18 Feb 2021.
- Attended National webinar on- Geometry: The great contribution of India (History of Indian Mathematics), organized by Deshbandhu College, Delhi University, 05 Nov 2020.
- Attended online workshop “Evidence based teaching and learning strategies in higher education” 20-22 July 2020. IISER Bhopal.
- Participated in NPTEL Workshop by IIT Roorkee, held at JUIT, 15<sup>th</sup> June, 2019.
- Attended one-week Advanced level workshop of national program on Differential Equations: Theory, Computation & Applications (NPDE-TCA) sponsored by DST Govt. of India and Organized by department of Mathematics JUIT Waknaghat 19-25 October 2015.
- Attended one week workshop on “Combinatorics and Graph Theory in Science and Engineering (CGSE 2014)” organized by Department of Mathematics, Jaypee University of Information Technology, Waknaghat, Himachal Pradesh, 3-8 November 2014.

- Participated in the “International Conference on Differential Geometry, Functional Analysis and Applications” 8-10 September 2012, organized by JMI, New Delhi.
- Worked in the capacity of TA and contributed in organizing “ISL Differential Equations and Computations 04-16 June 2012” JUIT Wagnaghat, Sponsored by National Board for Higher Mathematics, India.
- Attended IUCEE 2011 Indo-US Faculty Leadership Institute course “Artificial Neural Networks, Pattern Recognition, Computer Vision and Multimedia Information Retrieval” July 4-8, 2011 JUIT, Wagnaghat, Himachal Pradesh.
- Contributed in organizing the National Conference on Recent Trends in Materials and devices 20<sup>th</sup>-22<sup>nd</sup> May 2010, Amity Institute of Applied Sciences & ASET, Amity University Uttar Pradesh, Noida.
- Participated in the Faculty Development Programme on Research Methodology, May 12-13, 2010 at Amity University Uttar Pradesh, Noida.
- Participated in advanced training course on “Application of Remote Sensing, GIS and GPS in Natural resource Management” organized by DDU Gorakhpur University (Sponsored by DST, Government of India, New Delhi), 17<sup>th</sup> July – 5<sup>th</sup> August, 2006.
- Participated in the National refresher course on “Tensors and their Applications in Engineering Sciences” organized by Indian Academy of Sciences at IISc Bangalore, 11<sup>th</sup> - 23<sup>rd</sup> December 2006.

#### **Project Guidance:**

- Guided B. Tech. Students for Mathematics mini-projects at JUIT Wagnaghat, Solan.
- Guided B. Tech. Students for term paper projects at Amity University Uttar Pradesh, Noida.

#### **Professional Membership:**

- Indian Mathematical Society (IMS), (Life member).
- American Mathematical Society (AMS).
- Forum for Interdisciplinary Mathematics, (FIM) (Life member).

**Reviewer of Journals:**

- Editorial Board member and reviewer- Mathematics and Statistics, Horizon Research Publishing Corporation, (Scopus).
- Reviewer -Arabian Journal of Mathematics, Springer (ESCI/WoS/Scopus).

*Pradeep Kumar Pandey*