PRADEEP KUMAR PANDEY

Associate Professor
Department of Mathematics
Jaypee University of Information Technology
Waknaghat, Solan
Himachal Pradesh-173234.
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EMPLOYMENT DETAILS:

More than 16 years of Teaching Experience at the university level.

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Position	University	Period
Associate Professor	JUIT Waknaghat, Solan	July 2025 to Present
Assistant Professor (SG)	JUIT Waknaghat, Solan	February 2015 to June 2025
Assistant Professor (Gr. II)	JUIT Waknaghat, Solan	August 2013 to January 2015
Assistant Professor (Gr I)	JUIT Waknaghat, Solan	January 2011 to July 2013
Lecturer	Amity University Noida	August 2008 to January 2011

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EDUCATIONAL QUALIFICATIONS:

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Ph.D. (Mathematics)
Jamia Millia Islamia (Central University), New Delhi, (2005-2009).
Thesis Title: Geometry of Submanifolds.
Supervisor: (Late) Prof. (Dr.) Sharfuddin Ahmad

M. Sc. (Mathematics)
DDU Gorakhpur University, First division, (2003).

B. Sc. (Mathematics)
DDU Gorakhpur University, First division (2001).

HPPSC SET
Mathematical Science, (2018).

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RESEARCH INTERESTS:

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Differential Geometry & Its Applications

Curves & Surfaces

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Ph.D. STUDENTS (SOLE) SUPERVISION:

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Sameer (Awarded 2022): Investigation of certain curves and metallic structures on Manifolds

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Ph.D. STUDENTS SUPERVISING:

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Suyash Parkash Chauhan   (Ongoing)
Jitika   (Ongoing)

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RESEARCH PROFILE:

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1. Google Scholar
https://scholar.google.com/citations?hl=en&user=2XzKLGAAAAAJ&view_op=list_works

2. Scopus
https://www.scopus.com/authid/detail.uri?authorId=36015587500

3. ORCID ID
https://orcid.org/0000-0003-0872-8904

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RESEARCH PUBLICATIONS:

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1. Sameer Mohammad, **Pradeep Kumar Pandey**, Thakur Suman: A Note on the Silver Hessian Structure, Journal of Science and Arts, Vol. 24 (2), pp 375-388, (2024).

2. Sameer, and **Pradeep Kumar Pandey**, "Differential equations for Indicatrices, Spacelike and Timelike curves"; Aust. J. Math. Anal. Appl., vol. 20, no 2, pp 1-9, (2023).

3. Sameer, and **Pradeep Kumar Pandey**, "On contact CR-Submanifold of a Kenmotsu manifold with killing tensor field", Kragujevac Journal of Mathematics, vol. 47, no. 1, pp 95-104, (2023).

4. Sameer, and **Pradeep Kumar Pandey**: On the Adapted Connections on Kaehler-Norden Silver Manifolds, Honam Mathematical Journal, 43(4), pp. 701–715, (2021).

5. Sameer, and **Pradeep Kumar Pandey**: Copper differential geometry; AIP Conf. Proceedings 2214, 020012, (2020). https://doi.org/10.1063/5.0003357.

6. **Pradeep Kumar Pandey,** and Sameer Mohammad: Magnetic and slant curves in Kenmotsu manifolds; Surveys in Mathematics and its Applications, 15, pp 139-151, (2020).

7. **Pradeep Kumar Pandey**, and Sameer: Bronze differential geometry; Journal of Science and Arts, 4(45), pp 973-980, (2018).

8. **Pradeep Kumar Pandey**: Physical applications of the geometry of differentiable manifolds, AIP Conf. Proceedings 1802, 020012, (2017). doi: 10.1063/1.4973262.

9. S. Kumar, K. Bala, and **Pradeep Kumar Pandey**: Logarithmic Order of Entire Monogenic Functions. Mathematical Sciences International Research Journal, Vol. 3 (1) pp. 175-179, (2014). ISSN 2278-8697.

10. **Pradeep Kumar Pandey**: On the differentiability of multivariable Functions. IOSR Journal of Mathematics 8 (2), 81-86, (2013). ISSN: 2319–765X.

11. **Pradeep Kumar Pandey**: On contact slant submanifolds in Kenmotsu space forms, IOSR Journal of Engineering, Vol. 2, pp 41-44, (2012). ISSN: 2278-8719.

12. **Pradeep Kumar Pandey**, R. S. Gupta, and A. Sharfuddin: B. Y. Chen's inequalities for bi-slant submanifolds in Kenmotsu Space forms, Demonstratio Mathematica; XLIII (4), pp 887-898, (2010).

13. **Pradeep Kumar Pandey,** and R. S. Gupta: Existence and uniqueness theorem for slant immersions in Kenmotsu space forms, Turkish Journal of Mathematics; 33, pp 409-425, (2009).

14. **Pradeep Kumar Pandey** and R. S. Gupta: Characterization of a slant submanifold of a Kenmotsu manifold, Novi Sad Journal of Math; 38(1), pp 97-102, 2008.

15. **Pradeep Kumar Pandey**: A note on CR-integral curves of Kaehler manifolds, Differential-Geometry - Dynamical systems; 10, pp 254-256, (2008). ISSN 1454-511X. Abstracted in Mathematical Reviews-AMS, zbMATH.

16. R. S. Gupta, and **Pradeep Kumar Pandey**: Structure on a slant submanifold of a Kenmotsu manifold, Differential-Geometry - Dynamical systems; 10, pp 139-147, (2008). ISSN 1454-511X. Abstracted in Mathematical Reviews-AMS, zbMATH.

Book Publication:

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

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CONFERENCE/WORKSHOP/FDP ORGANIZING COMMITTIEES:

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- Organized as a coordinator one week (online) FDP on "Data Science in Financial Statistics & Predictive Analysis with R" JUIT Solan, 22-27 Dec 2024.

- Organized as a coordinator two weeks NCM workshop on "Advanced topics in PDEs" jointly with National Centre for Mathematics, and Department of Mathematics, 15-27 May 2023.

- Organized webinar by alumnus Dr. Meenakshi, in capacity of coordinator "An Overview of Research in Algebraic Coding Theory" 8 Sep 2023 at JUIT.

- Organized webinar/Alumni talk by Prof. Rajesh Kumar Gupta, in capacity of coordinator "Advantages of Numerical Computation" 10 Jan 2023 at JUIT.

- Contributed in the capacity of member of the local organizing committee to organize 2nd International Conference on Eco-friendly Computing and Communication Systems (ICECCS 2013) organized by Department of Mathematics, Jaypee University of Information Technology, Waknaghat, Solan (H.P.), India during October 17-19, 2013.

- Worked in the capacity of TA and contributed in organizing "ISL (*Instructional Schools for Lecturers*) Differential Equations and Computations 04-16 June 12" held at JUIT Waknaghat, Sponsored by National Center for Mathematics (A joint centre of TIFR and IIT Bombay), India.

- Contributed as an organizing member in the National Conference on Recent Trends in Materials and devices held from 20-22 May 2010 by Amity Institute of Applied Sciences & ASET, Amity University Uttar Pradesh, Noida.

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CONFERENCE PRESENTATIONS/ PARTICIPATIONS:

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- Participated in International conference of international academy of physical sciences (Recent advances in differential geometry and Topology), Central University of Punjab, Bathinda: Oct 26-28, 2021.

- Participated in the 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 e-conference 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.

- Participated 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, Bilaspur, Chhattisgarh, February 23-25, 2018.

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WORKSHOPS/SEMINAR/FDP PARTICIPATION:

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- Attended NEP 2020 Orientation & Sensitization programme organized by MMTTC HPU Shimla, 23.01.2024 to 02.02.2024.

- Attended NEP 2020 Orientation & Sensitization programme organized by MMTTC HPU Shimla, 26 February 2024 to 5 March 2024.

- Attended FDP on "Teaching and Research Practices" organized by Department of BT & BI, JUIT, 05-09 June 2023.

- Attended one-week online Faculty Development Programme on NEP 2020 Implementation in Higher Education Institutes, organized by NITTTR Chandigarh 09-15 May 2022.

- Attended one-week FDP on Waste Management for Sustainable Development, organized by department of Civil Engineering, JUIT 04-08 January 2021.

- Attended one-week Faculty Development Programme, organized by UGC-HRDC University of Allahabad, 5-11 August 2020.

- Attended online workshop "Evidence based teaching and learning strategies in higher education" organized by IISER Bhopal, 20-22 July 2020.

- Participated in "NASI-TMC Summer School on Differential Geometry" organized by the National Academy of Sciences, & CUP Bathinda, 05-24 July 2021.

- Attended "4th Iranian Conference on Computational Geometry (ICCG-2021)", organized by Yazd University, Iran, 18 Feb 2021.

- Attended International conference on "Advances in Topology and Differential Geometry", organized by Guru Ghasidas University, Bilaspur (C.G.), 18-20 Dec 2020.

- 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.

- Attended one-week Faculty Development Programme at JUIT organized by JUIT, 14-19 July 2014.

- Participated in the "International Conference on Differential Geometry, Functional Analysis and Applications" 8-10 September 2012, organized by JMI, New Delhi.

- Attended IUCEE 2011 Indo-US Faculty Leadership Institute course "Artificial Neural Networks, Pattern Recognition, Computer Vision and Multimedia Information Retrieval" from July 4-8, 2011 at JUIT, Waknaghat, Himachal Pradesh.

- Participated in the Faculty Development Programme on Research Methodology, May 12-13, 2010, Amity University Uttar Pradesh, Noida.

- Participated in the National refresher course on "Tensors and their Applications in Engineering Sciences" organized by Indian Academy of Sciences at IISc Bangalore; 11 - 23 December 2006.

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REVIEWER WORK FOR JOURNALS AND PUBLISHERS:
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- Mathematics and Statistics, Horizon Research Publishing Corporation, USA.

- Reports on Mathematical Physics, UK.

- Issues of Analysis, Russia.

- International Journal of Mathematical, Engineering and Management Sciences, India.

- Arabian Journal of Mathematics, Saudi Arabia.

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CONTRIBUTION TO PROFESSIONAL ACTIVITIES:
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- Contributed in organizing Induction Orientation program for 2025 admitted student batch in capacity of faculty Coordinator, 15-24 July 2025.

- Departmental Alumni Affairs Coordinator, JUIT. (2025, 2024, 2023, 2022, 2021).

- Departmental Time Table Coordinator (2024-25).

- Departmental Annual Report coordinator.

- Member of the Ph.D. DPMC, providing guidance on research progress evaluation, academic compliance, and quality assurance of doctoral work.

- Coordinated the organization of National Mathematics Day on 22 December 2024, facilitating academic activities and events to promote mathematical awareness and appreciation.

- Served as Chairman of the Mess Supervising Committee at Jaypee University of Information Technology during the periods 01–07 December 2024 and 12–18 May 2025. Responsibilities included overseeing dining operations, monitoring food quality, and hygiene standards, addressing student feedback, and ensuring compliance with institutional policies to enhance student welfare.

- Conducted admission outreach activities on behalf of JUIT at The Lawrence School, Sanawar, Solan, 20 April 2024.

- Served as Warden at Jaypee University of Information Technology from 01 April 2019 to 12 December 2021, overseeing student welfare, residential administration, and hostel management.

- Contributed in organizing one week Induction Orientation program for 2023 admitted student batch in capacity of faculty group coordinator, 25-31 July 2023.

- Contributed as a faculty group member for organizing a two-week induction programme for the 2022 batch (10+2-based) admitted students, 23 August to 05 September 2022.

- Served as Board Chairman for the vacating of hostel rooms (Ref: JUIT/WKG/REGR/2021-22/006) November 2021. During the COVID-19 period, facilitated and supervised the process wherein locked hostel rooms of students were opened, belongings were securely packed, and subsequently dispatched safely to their respective homes, ensuring transparency, accountability, and student welfare.

- Served as a Member of the Board of Studies (BoS), contributing to curriculum development, academic policy formulation, and quality enhancement initiatives.

- Served as Faculty Coordinator for the Departmental Self-Study Report (SSR) preparation for NAAC accreditation 2016–17 and 2017–18, contributing to documentation, data compilation, and quality assurance processes.

- Served as Faculty Coordinator for Departmental contributions to the National Institutional Ranking Framework (NIRF) during the academic years 2019–20, 2020–21, 2021–22.

- Served as a Member of the Disciplinary Grades Review Committee (Ref: JUIT/WKG/REGR/2019-20/883) June 2020, contributing to the review, evaluation, and resolution of academic and disciplinary grade-related cases in accordance with institutional regulations.

- Served as a Member of the Board of Officers for LRC stock verification at JUIT, with responsibility for verifying Mathematics book collections in the university library (2019, 2021, 2022, 2023, 2024).

- Served as a Member of the Anti-Ragging Squads (Ref: JUIT/WKG/REGR/2021-22/105) in 2021, and in 2019 (Ref: JUIT/WKG/REGR/2017-18/7889) contributing to the enforcement of anti-ragging regulations, monitoring student conduct, and ensuring a safe and inclusive campus environment.

- Served as Alumni Faculty Coordinator at Jaypee University of Information Technology, 2016–17, facilitating alumni engagement, strengthening alumni–institution linkages, and coordinating alumni-related events and initiatives.

- Served as Faculty Coordinator of the Literary Club and Reverie Magazine under the Jaypee Youth Club (JYC) during the academic year 2015–16, mentoring student teams in organizing literary activities and overseeing the editorial and publication process of the annual magazine.

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PROFESSIONAL MEMBERSHIP:
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- Indian Mathematical Society.
- Forum for Interdisciplinary Mathematics (FIM).
- American Mathematical Society.

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TEACHING:
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- Mathematical Analysis (PG)
- Differential Geometry (PG)
- Advanced Linear Algebra (PG)
- Engineering Mathematics I (UG)
- Engineering Mathematics II (UG)
- Discrete Computational Mathematics (UG)

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SYLLABI DEVELOPED:
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- Contributed in designing curriculum of "Calculus (22BS11MA111)" for B.Sc. Mathematics & Computing (Semester-I, 2022-23), Jaypee University of Information Technology, Waknaghat, Solan.

- Designed curriculum of "Mathematical Analysis (13P1WMA232)" for Ph.D. Mathematics (Semester-II, 2018-19 course work), Jaypee University of Information Technology, Waknaghat, Solan.

- Designed curriculum of "Real and complex Analysis (18MS1ST111) for M.Sc. Statistics (Semester-I, 2018-19), Jaypee University of Information Technology, Waknaghat, Solan.

- Designed curriculum of "Differential Geometry (17P1WMA111)" for Ph.D. Mathematics (Semester-I, 2017-18 course work), Jaypee University of Information Technology, Waknaghat, Solan.

- Designed the curriculum of "Real Analysis" for proposed course M.Sc. Mathematics (Semester-I 2018-19), Jaypee University of Information Technology, Waknaghat, Solan, H.P. 2017.

- Designed the curriculum of "Topology" for proposed course M.Sc. Mathematics (Semester-II 2018-19), Jaypee University of Information Technology, Waknaghat, Solan, H.P. 2017.

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PROJECT GUIDANCE:

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- Guided B. Tech students for mini-projects, JUIT Solan 2025.

- Guided B. Tech Students for Mathematics mini-projects, JUIT Solan 2014, 2015.

- Guided B. Tech. Students for Term Paper projects at Amity University Uttar Pradesh, Noida, 2009 & 2010.

Pradeep Kumar Pandey