

CV



DR. KANWALJEET KAUR

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Career Objective

To foster learning, analytical thinking, and creativity among students while contributing to institutional growth through effective teaching, research, and academic leadership.

Teaching Experience (24 Years 08 Months)

Associate Professor

Baba Farid College of Engineering & Technology, Bathinda
(July 2013 – Present)

- NAAC Team Criterion 2 Coordinator
- Centralised head Ranking and accreditation Cell
- IIC Convener & Innovation Ambassador

Assistant Professor / Academic Leadership Roles

Bhai Maha Singh College of Engineering, Sri Muktsar Sahib
(Sept 2002 – July 2013)

- Head of Department
- Admission In-charge (2005–2010)
- Head of Examinations
- Superintendent (PTU Exams)
- Coordinator – Women Cell
- Member – Academic & Discipline Committees

Lecturer

AIET, Faridkot
(July 2001 – Sept 2002)

Educational Qualifications

- Ph.D. (Mathematics), PTU, 2016
Thesis: *Wave Propagation in Non-Homogeneous Viscoelastic Media*
- M.Phil, Alagappa University, 2008
- M.Sc. (Mathematics), MDS University Ajmer, 2000
- B.Ed, KUK, 1998
- B.Sc. (Non-Medical), Punjab University, 1997

Research Publications (Journal Papers)

1. "A Dynamic Non-Linear Viscoelastic Model" pp.4780–4787, International Journal of Engineering Science and Technology, Vol.4(12), 2012.
2. "Applicability of Four Parameter Viscoelastic Model for Longitudinal Wave Propagation in Non-Homogeneous Rods" pp.75–90, International Journal of Engineering Science and Technology, Vol.5(1), 2013.
3. "Rheological Response and Validity of Viscoelastic Model through Propagation of Harmonic Waves in Non-Homogeneous Viscoelastic Rods" pp.131–151, Journal of Solid Mechanics, Vol.5(2), 2013.
4. "Analysis of Five Parameter Viscoelastic Model Under Dynamic Loading" pp.426–440, Journal of Solid Mechanics, Vol.4(4), 2012.
5. "Rheological Behavior and Applicability of Viscoelastic Model for Wave Propagation in Non-Homogeneous Polymer Rods" pp.36–58, Multidiscipline Modeling in Materials and Structures, Vol.10(1), 2014.
6. "Propagation of Longitudinal Waves in Non-Homogeneous Four-Parameter Viscoelastic Rods" pp.67–71, Journal of Mechanical Behaviour of Materials.
7. "Viscoelastic Modeling of Aortic Excessive Enlargement of an Artery" pp.479–493, International Journal of Mechanical Engineering & Technology, Vol.4(2), 2013.
8. "Surface Waves in Non-Homogeneous General Thermo Visco-Elastic Media of Higher Order" pp.1–19, International Journal of Applied Mathematics and Mechanics, Vol.8(6), 2012.
9. "Transient Cylindrical Shear Waves Propagation in Non-Homogeneous Five Parameter Viscoelastic Media" pp.20–32, International Journal of Applied Mathematics and Mechanics, Vol.8(6), 2012.
10. "Surface Waves in Fiber Reinforced General Viscoelastic Media of Higher Order" pp.33–48, International Journal of Applied Mathematics and Mechanics, Vol.8(6), 2012.
11. "Analysis of Five-Parameter Viscoelastic Model under Dynamic Loading" pp.419–426, Journal of Academic and Industrial Research, Vol.1(7), 2012.
12. "Effects of Various Inhomogeneities on Torsional Surface Waves Propagating in a Viscoelastic Medium" pp.820–839, Journal of Chemical, Biological and Physical Sciences, Vol.3(1), 2013.
13. "Influence of Gravity and Temperature on Rayleigh Waves in Non-Homogeneous General Viscoelastic Media of Higher Order" pp.62–70, International Journal of Physical and Mathematical Sciences, Vol.4(1), 2013.
14. "Mathematical Analysis of Five Parameter Model on the Propagation of Cylindrical Shear Waves in Non-Homogeneous Viscoelastic Media" pp.45–52, International Journal of Physical and Mathematical Sciences, Vol.4(1), 2013.

15. "Rayleigh, Love, Stoneley Waves in Fiber-Reinforced General Viscoelastic Media of Higher Order under Gravity" pp.53–61, *International Journal of Physical and Mathematical Sciences*, Vol.4(1), 2013.
16. "Influence of Gravity, Compression and Magnetic Field on the Propagation of Rayleigh Waves in Non-Homogeneous Orthotropic Elastic Media" pp.350–358, *Advances in Applied Science Research*, Vol.4(1), 2013.
17. "Torsional Vibrations in a Non-Homogeneous Medium over a Viscoelastic Dissipative Medium" pp.39–49, *International Journal of Pure and Applied Sciences and Technology*, Vol.14(2), 2013.
18. "Study of Viscoelastic Model for Longitudinal Wave Propagation in a Non-Homogeneous Viscoelastic Filament" pp.1–11, *International Journal of Pure and Applied Sciences and Technology*, Vol.14(2), 2013.
19. "Study of Viscoelastic Model for Harmonic Waves in Non-Homogeneous Viscoelastic Filaments" pp.31–50, *Interaction and Multiscale Mechanics*, Vol.6(1), 2013.
20. "Rheological Responses of Viscoelastic Models under Dynamical Loading" pp.305–326, *European Scientific Journal*, Vol.9(12), 2013.
21. "Rheological Response and Validity of Viscoelastic Model through Wave Propagation" pp.279–297, *Mathematica Aeterna*, Vol.3(4), 2013.
22. "Rheological Modeling of Viscoelastic Non-Homogeneous Rods with Stable Constitutive Equations" pp.80–115, *International Journal of Applied Mathematics and Mechanics*, Vol.9(19), 2013.
23. "Transient Stress Wave Propagation in Non-Homogeneous Seven-Parameter Viscoelastic Filament" pp.235–249, *Journal of Rajasthan Academy of Physical Sciences*, Vol.13(3–4), 2014.
24. "Dynamic Response of Linear Viscoelastic Bodies under Periodic Stresses and Strains" *International Journal of Engineering, Science and Mathematics*, Vol.6(6), October 2017.
25. "Propagation of a Homogeneous Incompressible Impure Viscoelastic Fluid through a Circular Pipe under the Influence of Transverse Magnetic Field" pp.184–189, *International Journal of Advance Research in Science and Engineering*, Vol.7(5), April 2018.
26. "Effect of Magnetic Field on Torsional Waves in Non-Homogeneous Anisotropic Tube" pp.252–266, *Journal of Solid Mechanics*.
27. "Introduction to Fluid Mechanics: A Review" pp.1461–1470, *International Journal of Management, Technology and Engineering*, Vol.8(7), July 2018.

Book Chapters & Conference Proceedings

1. "Managing Innovations in Multidisciplinary Fields" pp.6–9, *Interdisciplinary Management Research*, ISBN: 978-93-48199-14-0.
2. "Interdisciplinary Management Research: Premises, Promises and Pitfalls" pp.1–5, *Interdisciplinary Management Research*, ISBN: 978-93-48199-14-0.
3. "Integral Transformation in Engineering and Technology" pp.585–589, *Proceedings of National Conference on Recent Innovations in Science, Engineering and Networking (RISEN-25)*, 2025, ISBN: 978-93-342-7667-0.
4. "Green Technologies and Smart Innovations: Shaping a Sustainable Future" pp.520–525, *RISEN-25 Conference Proceedings*, 2025, ISBN: 978-93-342-7667-0.
5. "Design of Biopellet Stove for Sustainability" pp.513–519, *RISEN-25 Conference Proceedings*, 2025, ISBN: 978-93-342-7667-0.

6. "Design of Automatic Pellet Making Machine from Cow Dung and Agricultural Waste" pp.508–512, RISEN-25 Conference Proceedings, 2025, ISBN: 978-93-342-7667-0.
7. "A Dynamic Non-Linear Viscoelastic Model" pp.2923–2933, Proceedings of 20th International Congress on Sound and Vibration (ICSV 2013), Bangkok, Thailand, ISBN: 9781629931500.
8. "Numerical Field Calculations in Designing Mini Mechatronic System" pp.1–5, Proceedings of National Conference on Robotics and Mechatronics, 2007.
9. "Science and Spirituality in Co-existence" pp.125–127, Proceedings of National Seminar on Science, Spirituality and Ethics for Human Development, 2009.
10. "Science and Spirituality" pp.131–134, Proceedings of National Seminar on Science, Spirituality and Ethics for Human Development, 2009.

Conference Presentations

International Conferences

1. "Plane Waves in Non-Homogeneous Five Parameter Viscoelastic Rod" presented at International Conference on Information and Mathematical Sciences (IMS-13), pp. (Proceedings), 24–26 Oct 2013, BFCET Bathinda.
2. "Longitudinal Wave Propagation in Non-Homogeneous Four Parameter Viscoelastic Filaments" presented at IMS-13, 24–26 Oct 2013.
3. "Propagation of a Homogeneous Incompressible Impure Viscoelastic Fluid through a Circular Pipe under the Influence of Transverse Magnetic Field" presented at International Conference on Recent Trends and Innovations in Engineering Science and Management, pp. (Proceedings), 14–15 April 2018.
4. "Introduction to Fluid Mechanics: A Review" presented at XIV International Conference on Engineering Science and Management, pp. (Proceedings), 29 July 2018, Osmania University.
5. "Behaviour of Viscoelastic Models According to Time Scale" presented at International Conference on Intelligent Machines (ICIM-19), pp. (Proceedings), 15–16 March 2019.

National Conferences

1. "Numerical Field Calculation in Designing Mini Mechatronics System" presented at National Conference on Robotics & Mechatronics, pp. (Proceedings), 29–30 Nov 2007.
2. "Science & Spirituality" presented at National Seminar on Science, Spirituality & Ethics for Human Development, pp. (Proceedings), March 2009.
3. "Science & Spirituality in Co-existence" presented at National Seminar on Science, Spirituality & Ethics for Human Development, pp. (Proceedings), March 2009.
4. "Now is the Time for Ethics in Education" presented at AICTE Sponsored National Conference on Management Development for Quality Education, pp. (Proceedings), 20 Nov 2009.
5. "Study of Differences in Properties of Viscoelastic and Magnetohydrodynamic Fluids" presented at National Conference on Advances in Wireless Communication and Mathematics (NCAWCM-18), pp. (Proceedings), 02 Dec 2018.
6. "Integral Transformations in Engineering and Technology" presented at National Conference RISEN-25, pp. (Proceedings), 14 April 2025.

7. Expert Talk: “Outcome Based Education” delivered during FDP on AI Tools and Academic Excellence, Dec 2023.
8. Expert Talk: “Permutation and Combination” delivered at BFSSS, Bathinda, Dec 2013.

Faculty Development Programs / Stc / Moocs Attended

1. “Intellectual Property Rights and Patent System in India”, conducted by NITTTR Chandigarh, held from 20-03-2009 to 22-03-2009 at BMSCE Muktsar.
2. Technical Teacher Training Program on “Development of Facility in Teaching Methodology and Education Management”, held from 26-07-2010 to 30-07-2010 at BMSCE Muktsar.
3. “E-Governance in Technical Institutions”, conducted by NITTTR Chandigarh, held from 27th–31st July 2015 at Baba Farid College of Engineering & Technology, Bathinda.
4. “Mobile Computing”, conducted by NITTTR Chandigarh, held from 15th–19th February 2016 at Baba Farid College of Engineering & Technology, Bathinda.
5. “Curriculum Development”, conducted by NITTTR Chandigarh, held from 10th–14th July 2017 at Giani Zail Singh Campus College of Engineering & Technology, Bathinda.
6. “Student Induction Programme on Universal Human Values (UHVE)”, organized by AICTE, held from 29th June–1st July 2018 at CEC Landran.
7. “Outcome Based Teaching Learning Skills in Digital Age”, a six-day FDP sponsored by AICTE & ISTE, held from 16-07-2018 to 21-07-2018 at BFCET Bathinda.
8. NPTEL Online Course “Mathematical Methods for Boundary Value Problems”, July–August 2022 (4 weeks duration).
9. One Week Faculty Development Programme on “Computing with MATLAB and LATEX Software: Indispensable Tool for Researchers”, organized by Department of Mathematics, BFCET Bathinda in collaboration with Mizan-Tepi University, Ethiopia and MTTF India, held from 5th–11th January 2022.
10. “Smart Materials Processing and Applications”, conducted by NITTTR Chandigarh, held from 25th–29th July 2022.
11. Two Weeks Training Workshop on “Symbolic Mathematics with Python: An Emerging Tool for Science and Engineering”, organized by MTTF India, held from 1st–14th August 2022.
12. Wadhvani Foundation Faculty Orientation Programme on “21st Century Employability Skills Course”, July 2024.
13. “Innovation Ambassador Training – Foundation Level” (16 Sessions, 30 Hours), conducted by AICTE Innovation Cell during IIC Calendar 2024–25.
14. “Innovation Ambassador Training – Advanced Level” (16 Sessions, 30 Hours), conducted by AICTE Innovation Cell during IIC Calendar 2024–25.
15. “Intellectual Property Rights Utsav”, organized by AICTE Innovation Cell, held from 21st–26th April 2025.
16. “Symbolic Mathematics with Python: An Emerging Tool for Science and Engineering”, STC, 01–14 Aug 2022.
17. “Mathematical Methods for Boundary Value Problems”, NPTEL July–Aug 2022 (4 Weeks).

Trainings & Workshops

1. “Innovation Ambassador Training – Foundation Level” (16 Sessions, 30 Hours), AICTE Innovation Cell, 2024–25.
2. “Innovation Ambassador Training – Advanced Level” (16 Sessions, 30 Hours), AICTE Innovation Cell, 2024–25.
3. “Intellectual Property Rights Utsav”, AICTE Innovation Cell, 21–26 April 2025.

Academic Contributions

- NAAC Coordination
- Innovation Cell Leadership
- Examination Management
- Curriculum Development
- OBE Implementation

Declaration

I hereby declare that the information provided is true to the best of my knowledge.

(Dr. Kanwaljeet Kaur)