

Curriculum-Vitae

Personal Details

Name : Vivek Goel
Date of Birth : 26th August, 1971
Fathers Name : Shri M. K. Goel
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Professional and Educational Qualifications

- Receive **Ph.D.** degree from Gurukula Kangri Vishwavidyalaya, Haridwar in 1998 on the topic of “A Study of Ganitatilaka”.
- Passed **M.Sc.** from Gurukula Kangri Vishwavidyalaya, Haridwar in 1994.
- Passed **B.Sc.** from Gurukula Kangri Vishwavidyalaya, Haridwar in 1992.
- Passed **Intermediate** from U.P. Board in 1988.
- Passed **High School** from in 1986.

Membership of Academic Bodies

- Life Member of Indian Science Congress Association.
- Life Member Indian Society for History of Mathematics.

Teaching Experience

- Working as an Assistant Professor in Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar from 26th April 2006.
- Worked as an Adhoc lecturer in Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar from March 2003 to April 2006.
- Worked as a lecturer in Shobit Institute of Engineering & Technology, Gangoh SRE. from March 2001 to March 2003.
- Worked as a lecturer in Department of Mathematics & Statistics, Gurukula Kangri Vishwavidyalaya, Haridwar from Oct.1994 to Feb. 2001.

Ph. D. Scholars Enrolled: 04 .

Patents

1. Filed a patent on “Fully automatic assistance system based on internet of things for effective crowd management.” Application no.: 202241030062A, published on 17/06/2022, India.

Research Publication

1. Arora V., Goel V., Baudhayanas contribution to Vedic Geometry. Ganita-Bharati, 18(1996), 09-13.
2. Arora V., Goel V., A critical study of fractions in Ganitatilaka. M.E. (Siwan), 1997, 192-202.
2. Arora V., Goel V., Life and works of Sripati, Gurukula Kangri Vijnana Patrica Aryabhata, 1(1998).
3. Goel V., Arora V., Remarks on certain approximation techniques of Ganitatilaka, Gurukula Kangri Vijnana Patrica Aryabhata, 1(1998) 2.
4. Goel V., “Coinage” in International Journal of Engineering & Management research, Vol. IV, Issue II, 2014, 62-69.
5. M.M. Tiwari, Vivek Goel, Faheem Ahamad, State of the Science of environment, spirituality and health: An overview in Environment Conservation Journal, ISSN 0972-3099, 25 August 2022.
6. Sunil Kumar, Vijay K. Yadav, Saumya Goyal, Vivek Goel, Anshika Kumari, Artificial Neural Networks and Biodiesel Production: A review in @2024 IEEE (DOI: 10.1109/ICSCAI61790.2024.10866609).
7. Divyangana Sharma, Vivek Goel and Sunil Kumar, An appraisal of the competence of Mathematical Fuzzy Logic Approach via Adaptive Neuro-Fuzzy Inference System (ANFIS) in Biodiesel production from algae oil, Engineering Research Express 7 (2025) 015509, published on January 08.

International Conferences

1. Spirituality and Science in International Conference on Integrity Spirituality and Organizational Leadership, IIT Roorkee during February 1-5, 2011.
2. Invited Lecture “Coinage” in International Conference on Green Technologies for Environmental Rehabilitation, organized by Gurukul Kangri University, Haridwar, (February 11-13, 2012).
3. Generalized Fuzzy N-Normed Linear Space in International Conference on Green Technologies for Environmental Rehabilitation, organized by Gurukul Kangri University, Haridwar, (February 11-13, 2012).
4. Generalization and Fuzzification of common Fixed Point Theorem in International Conference on Green Technologies for Environmental Rehabilitation, organized by Gurukul Kangri University, Haridwar, (February 11-13, 2012).
5. Artificial Neural Network and biodiesel production: A review in International Conference on Smart Innovative Technologies for Green & Sustainable Development, DEV BHOOMI Uttarakhand University, Dehradun 31st Aug – 02nd Sep, 2023.
6. A Comprehensive review on the Optimization of Parameters using response surface methodology in International Sustainability Conference on HSFEA, UPES Dehradun, 30-31 October, 2023.

7. Evaluation of the mathematical fuzzy logic approach's proficiency in creating biodiesel from Laminaria Digitata algae oil using the Adaptive Neuro- Fuzzy Inference System in International Conference on Science, Engineering and Management, JMIT & JMIETI, Radaur, Yamunanagar, 20th – 21st, 2024.
8. Forecasting the biodiesel yield with ANN tool during transesterification of Used Frying Oil in International Conference on Science, Engineering and Management, JMIT & JMIETI, Radaur, Yamunanagar, 20th – 21st, 2024.
9. Optimization of Biodiesel production and engine performance : A review of techniques and challenges in the International Conference on Automation For Sustainable Future, FET GKV, Haridwar, 7-8 March 2025.
10. A comprehensive analysis of Shock Wave Proliferation problem in Gaseous medium : A review in the International Conference on Automation For Sustainable Future, FET GKV, Haridwar, 7-8 March 2025.
11. A comprehensive assessment of research on Multidisciplinary approaches to Optimization and Machine Learning Techniques in the International Conference on Automation For Sustainable Future, FET GKV, Haridwar, 7-8 March 2025.

National Conferences

1. Invited Lecture in National Conference on “ Modern Technologies for betterment of Human Life”, Nagaji Institute of Technology and Management, Gwalior, 26 June 2010.
2. A Fuzzy Approach of Tasks Scheduling in Distributed Real Time Systems in National Conference on Role of Mathematical and Physical Sciences in Engineering and Technology, October 21-22, 2011.
3. An Optimal Task Allocation Algorithm in Distributed Real Time System, in National seminar on “Innovations & Application in Engineering and Applied Sciences” organized by Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 09-10, 2011.
4. Influence of AC Stimulation on wound Healing in National Conference On Progress in Electronics and Allied Science, Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 03-04, 2012.
5. Glimpse of Pati-Ganita in the National seminar on Optimization Techniques, organized by Dept. of Mathematics, DAV P.G. College, Muzzffarnagar, 19th- 20th March, 2013.
6. A study of higher order iterative methods in National Conference on Emerging Trends in Engineering and Sciences (ETES-2013), Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 9-10, 2013.
7. Queueing System with finite capacity using iterative method in National Conference on Emerging Trends in Engineering and Sciences (ETES-2013), Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 9-10, 2013.

8. Mathematics in Vedic Literature in National Conference On Vaishwic Gyan-Vigya ke Paripekshya me Vedo ki Prasangita, Dept. of Ved, Gurukula Kangri Vishwavidyalaya, Haridwar & Mahirshi sandipani Rashtriya Ved-Vidhya Pratistithan, Ujjain, March 13-15, 2015.
9. Mainstreaming, A Gender Perspective in Science, Technology and innovation Policy in National Conference On Science and Technology for Human Development, Haridwar Chapter of the Indian Science Congress Association & Department of Ancient Indian History, Culture and Archaeology Gurukula Kangri Vishwavidyalaya, Haridwar, March 20-21, 2015.
10. Vedic Yoga in National Seminar on Yogic Management of life Style Disorders, organized by Department of Human Consciousness & Yogic Science, Gurukula Kangri University, Haridwar, March 30-31, 2015.
11. Operation Research: Business Applications in National Conference on Science and Technology for Indigenous Development in India, Haridwar Chapter of the Indian Science Congress Association and Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, September 28-30, 2015.
12. Historical sketch of Mathematics in Mesopotamia in National Conference on Science and Technology for Indigenous Development in India Haridwar Chapter of the Indian Science Congress Association and Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, September 28-30, 2015.
13. Circle (Chakra): Vedic Yantras of Ancient Science in National Conference On Science and Technology for Human Development, Haridwar Chapter of the Indian Science Congress Association & Department of Ancient Indian History, Culture and Archaeology Gurukula Kangri Vishwavidyalaya, Haridwar, March 20-21, 2015.

Orientation/Refresher Course attended:

1. Orientation Programme, 21 Dec. 2009-16 Jan 2010, UGC/ASC University of Rajasthan, Jaipur.
2. Refresher Course, 18.07.11-06.08.11, ASC, H.P. University, Shimla.
3. Special Winter School, UGC-ASC, 06.12.2014 to 26.12.2014, UGC-ASC, Panjab University, Chandigarh.
4. “ Constructivist Lesson Planning and Teaching Strategies” organized by Teaching Learning Centre under Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching Scheme, MHRD, Govt. of India from 10 to 20 Februray ,2020 at Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha, New Delhi.

Workshop/Faculty Development Programme attended:

1. Short term course on “Soft Computing”, NITTTR Chandigarh, 27/3/06 to 31/3/06
2. Development of “Multimedia learning materials”, NITTTR Chandigarh, 26/5/08 to 29/5/08

3. MHRD/AICTE sponsored summer school on “Advances in soft computing and Its applications” NITTTR Chandigarh from 14/7/08 to 25/7/08.
4. MHRD/AICTE sponsored winter school on “Advanced Antenna Engineering Through Experimentation” NITTTR Chandigarh from 09/02/2009 to 20/02/2009.
5. Workshop on Scientific Computing Theory and Practices, organized by Faculty of Engineering & Technology, Gurukula Kangri University, Haridwar (October 08-13, 2012).
6. Workshop on “Promotion of Innovation in Higher Educational Institutions” organized by IIT Roorkee, during March 1-5, 2013.
7. Workshop on “The Physics and Mathematics of the Universe” organized by Department of Physics & Mathematics, Gurukula Kangri University, Haridwar during March 11-12, 2013.
8. Short Term Course on “Role of Fuzzy Logic: Mathematical Programming Problems:” organized by NITTTR, Chandigarh (February 22-26, 2016).

Academic Responsibilities

1. National Service Scheme, Programme Officer, Faculty of Engineering & Technology, Gurukula Kangri University Haridwar, Uttarakhand.
2. Member of Editorial board of Faculty Quarterly News letter “Nabhag”.
3. Member Organizing Committee in the National Seminar on Innovations and Applications in Engineering and Applied Sciences, Faculty of Engineering & Technology, Gurukula Kangri University, Haridwar, 9-10 November 2011.
4. Member of Registration Committee in International Conference on Green Technologies for Environmental Rehabilitation, organized by Gurukul Kangri University, Haridwar, (February 11-13, 2012).
5. Convener of Press, Media and Photography Committee in International Conference on Green Technologies for Environmental Rehabilitation, organized by Gurukul Kangri University, Haridwar, (February 11-13, 2012).
6. Worked as Organizing secretary of one-week workshop on “Scientific Computing: Theory & Practices(SCTP-2012)” Organized by the Department of Applied Mathematics of Faculty of Engineering & Technology, Gurukula Kangri University, Haridwar, sponsored by Uttarakhand council of Science & technology & CSIR, From 8-13 Oct 2012.
7. Member of Registration Committee in National Conference On Progress in Electronics and Allied Science, Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 03-04, 2012.
8. Member of Reception Committee in in National Conference on Emerging Trends in Engineering and Sciences (ETES-2013), Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 9-10, 2013.

9. Convener of Press, Media and Photography Committee in National Conference on Emerging Trends in Engineering and Sciences (ETES-2013), Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, November 9-10, 2013.
10. Member of Registration Committee in National Symposium on Instrumentation (NSI-39) at Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar, October 15-17, 2014.
11. Chaired a session in International Conference on Integrative Approaches: The Emerging Interface of Science, Commerce and Humanities by IQAC AND Research Cell, Kishan Lal Public College, Rewari, 06-07 March, 2025.

Declaration

I hereby declare that all the statements made herein are true to the best of my knowledge and belief.

(Vivek Goel)