

Profile

1. **Name in Full:** Vijay Kumar Bhat
2. **Official Address:** Dr. V. K. Bhat, School of Mathematics, SMVD University, P.O. SMVD University, Katra, J and K, India, 182320. Phone : 01991285634 (Ext. 2506 (O), 6506 (R))
E.mail: vijaykumarbhat2000@yahoo.com, vijay.bhat@smvdu.ac.in
3. **Area of specialization:** Algebra, Discrete Mathematics, Theoretical Computer Science.
4. **Present Position:** Professor
6. **Experience:** Teaching: **18 years**, Research: **23 years (approx.)**
7. **Publications:** Total Publications – 86 in referred journals, out of which 59 are indexed in SCI/SCIE and Scopus. Some of the publications are as follows:
 1. V. K. Bhat, Krull dimension of skew polynomial rings, [Lobachevskii J. Math.](#), Vol. 22 (2006), 3-6.
 2. Neearj Nehra, R. B. Patel and V. K. Bhat, Distributed parallel resource co-allocation with load balancing in grid computing, Int. J. of Comp. Sc. and Network security, Vol.7(1) (2007), 282-291.
 3. Neearj Nehra, R. B. Patel and V. K. Bhat, Mobile agent based service discovery in ad hoc networks, Lecture Notes in Computer Science, (2007), 612-624
 4. V. K. Bhat, Associated prime ideals of skew polynomial rings, Beitr. Algebra Geom., Vol. 49(1) (2008), 277-283.
 5. V. K. Bhat, Ideal Krull symmetry of iterated extensions, Sib. Èlektron. Mat. Izv., Vol. 5 (2008), 193-199.
 6. V. K. Bhat and Neetu Kumari, A note on σ^* -rings and their extensions, Sib. Èlektron. Mat. Izv., Vol. 6 (2009), 505-509.
 7. V.K.Bhat, Transparent rings and their extensions, New York J. Math., Vol. 15 (2009), 291-299.
 8. V. K. Bhat, A note on completely prime ideals of Ore extensions, [Internat. J. Algebra Comput.](#), Vol. 20(3) (2010), 457-463.
 9. V. K. Bhat, Associated prime ideals of weak s-rigid rings and their extensions, Algebra Discrete Math., Vol.10(1) (2010), 8-17.
 10. V. K. Bhat, On pseudo-valuation rings and their extensions, Algebra Discrete Math., Vol. 12(2) (2011), 25-30.
 11. V. K. Bhat, Ideal Krull symmetry of skew polynomial rings, Beitr. Algebra Geom., Vol. 53(2) (2012), 507-514.
 12. V. K. Bhat, Minimal prime ideals of skew polynomial rings and pseudo valuation rings, Czechoslovak Math. J., Vol. 63 (138) (2013), 1049–1056.
 13. V. K. Bhat, Completely pseudo valuation rings and their extensions, Pub. de l'Ins. Math., Vol. 95 (109) (2014), 249-254.
 14. V. K. Bhat, On Completely Prime left ideals of Ore extensions, [Lobachevskii J. Math.](#), Vol. 36(1) (2015), 79-84.

15. V. K. Bhat, Polynomial rings over near completely prime ideal rings, Int. J. Math. Game Theory Algebra, Vol. 23(4) (2015), 325-332.
16. Vijay Kumar Bhat, Meeru Abrol, Latif Hanna, Maryam Alkandari, On (σ, δ) -rings over Noetherian rings, Bul. Acad. Ştiinţe Repub. Mold. Mat., No. 3(82) (2016), 3-11.
17. V. K. Bhat, Completely generalized right primary rings and their extensions, Arm. J. Math., Vol. 9 (1) (2017), 20–26.

8. Papers presented in conferences – 25

9. Academic Visit to other Countries: Spain, Ukraine, Iran, Kuala Lumpur, Manila Philippines, Brazil, Austria, Turkey, Kuwait, Russia, Ethiopia, Serbia, Switzerland.

10. Book:

Author	Title	Publisher	ISBN No.	Year
V. K. Bhat	An introduction to real analysis	Narosa Publishing House (SAARC Edition)	978-81-8487-149-4	2011
		Alpha Science International Limited, Oxford, U.K. (Other countries)	978-1-84265-705-8	2012
V. K. Bhat	Modern Algebra and Applications	Narosa Publishing House (SAARC Edition)	978-81-8487-328-3	2014
		Alpha Science International Limited, Oxford, U.K. (Other countries)	978-1-84265-855-0	2014
V. K. Bhat	Fundamentals of Complex Analysis	Narosa Publishing House (SAARC Edition)	978-81-8487-563-8	2017
		Alpha Science International Limited, Oxford, U.K. (Other countries)	978-1-78332-273-2	2017

11. Research Projects:

1. V. K. Bhat (PI) “Transparency of skew polynomial rings over Noetherian rings” for three years (2010-2013) funded by Department of Atomic Energy, Mumbai. **Completed.**
2. V. K. Bhat (PI) “Associated prime ideals and minimal prime ideals of skew polynomial rings” for two years (2011-2013) funded by UGC. **Completed.**
3. V. K. Bhat (Visiting Expert) “Ore Extensions over Noetherian rings” for two years (2015-2017) funded by Kuwait University. **Completed.**
4. V. K. Bhat(PI) “Completely prime ideals of skew polynomial rings” for three years (2017-2020) funded by SERB-DST. **Ongoing.**

12. Reviewer: American Math. Society (MathScinet), Transactions of IEEE.

13. Research Guidance (Ph.D.): Awarded – 8, Ongoing - 2

S.No	Name	Institute where registered	Title	Area	Status

1	Ravi Raina	SMVD University	A study on prime ideals of skew polynomial rings over Noetherian rings	Algebra	Awarded
2	Neeraj Nehra	SMVD University	Load balancing in Heterogeneous networks:A mobile agent approach	Comp. Science	Awarded
3	Ajay Koul	SMVD University	Quality of Service and Network Security in Mobile Adhoc networks	Comp. Science	Awarded
4	Om Prakash	Banasthali Vidyapith	Decomposability of skew polynomial rings	Algebra	Awarded
5	Neetu Kumari	SMVD University	A Study on Pseudo Valuation rings and their extensions	Algebra	Awarded
6	Smarti Gosani	SMVD University	2-primal rings over Noetherian rings	Algebra	Awarded
7	Kiran Chib	SMVD University	Transparency of skew polynomial rings over Noetherian rings	Algebra	Awarded
8	Meeru Abrol	SMVD University	Prime ideals of of skew polynomial rings	Algebra	Awarded
9	Arun Dutta	SMVD University	Zero divisor graphs	Algebra	Continuing
10	Pradeep Singh	SMVD University	Course work in progress (Title of the proposed work to be finalised)	Algebra	Continuing

14. Project Guidance (M.Sc.): 21

15. Teaching Courses (current): Abstract Algebra, Advance topics in Algebra, Modern Applied Algebra.

16. Courses taught: Linear Algebra, Real Analysis, and Mathematics courses for B.Tech.