

Dr. Pramod P. Khade

Associate Professor and Head

Department of Mathematics

M.Sc., M.Phil., Ph.D.

ACADEMIC QUALIFICATIONS

S.No.	Educational Qualification	University/Board	Year of Passing
1	Ph.D.	Amravati	2013
2	M.Phil.	Karaikudi	2008
3	M.Sc. Mathematics	Aurangabad	2004
4	B.Ed.	Pune	2003
5	B.Sc.	Aurangabad	2001
6	H.S.C.	Amravati	1998
7	S.S.C.	Amravati	1996

Orientation/Short-Term & Refresher Courses Attended

Name of the activity	Date	Venue
NEP 2020 Orientation and Sensitization Programme	16/9/24 to 25/9/24	Vidya Bharati Mahavidyalaya, Amravati
Two Week Refresher Course in Mathematics	16/3/21 to 30/3/21	Department of Mathematics, Ramanujan College, Delhi
Online Faculty Development Programme on open source tools for research	8/6/20 to 14/6/20	Ramanujan College, University of Delhi
Online Faculty Development Programme (Short Term Course)	18/5/20 to 23/5/20	Vidya Bharati Mahavidyalaya, Amravati
Online Faculty Development Programme on ICT Tools for Effective Teaching Learning	11/5/20 to 16/5/20	SRTM, University Nanded
Online Faculty Development Programme on SciLab	1/5/20 to 7/5/20	Rajarshi Shahu Mahavidyalaya, Latur
Online Faculty Development Programme on LaTeX	27/04/20 to 2/5/20	Sanjay Ghodawat University, Kolhapur
Faculty Development Programme on Introduction to Abstract Group Theory	Aug.-Oct. 2019	NPTEL-AICTE
Faculty Development Programme on Introduction to Abstract and Linear Algebra	Aug.-Oct. 2019	NPTEL-AICTE
Refresher Course in Natural and Bio sciences	29/03/17 to 18/04/17	H.R. D. C. Goa University Goa
Refresher Course in Basic Science (Mathematics)	27/10/14 to 15/11/14	U.G.C. Academic Staff College, Sant Gadge Baba Amravati University, Amravati.
86 th Orientation programme	15/04/13 to 11/05/13	Rani Durgavati Vishwavidyalaya, Jabalpur

CONTACT INFORMATION

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Experience

Teaching:

1) 4 Years as a Contract Basis Lecturer at G.V.I.S.H. Amravati

2) 16 Years at UG Level

3) Recognized PG Teacher in Mathematics (2023 & onwards)

Research (Scholar/Supervisor)

:1) 4 Years as a Research Scholar

2) 6 Years as a Research Supervisor for Ph.D.

3) 2 Years as a Investigator of a Minor Research Project

Administrative Experience:

Working as A Head Department of Mathematics Since 1st July 2009

Publications of Books

Sr. No.	Name of the Book	Name of Publisher	ISBN No.	Nature of Contribution
1	Vector Analysis and Geometry	Sonu-Nilu	978-81-88763-02-3	Co-author
2	Elements of Algebra and Trigonometry	Sonu-Nilu	978-81-88763-20-7	Co-author

Research Publications

Sr.	Title of the Paper	Name of the Journal with Vol.No. & Year	Level
1	The Space time P'	Vidarbha Journal of Science Vol II No.1(2007)4-7.	National
2	String Cosmological Model with Electromagnetic Field	Vidarbha Journal of Science Vol III No. 2(2008)51-55.	National
3	Homogeneous Bianchi Type I Cosmological Model Filled with Viscous Fluid with a Varying Λ	Romanian Journal of Physics Vol 54 No. 1-2(2009)195-205.	International
4	Kantowski-Sachs Viscous Fluid Cosmological Model with a Varying Λ	Turkish Journal of Physics Vol 33(2009)155-165.	International
5	A New Class of Inhomogeneous Magnetized Viscous Fluid String Cosmological Models with Variable (Λ)	Journal of Vectorial Relativity 6(2011)1, 51-64.	International
6	Bianchi Type VI Bulk Viscous Fluid String Cosmological Model In General Relativity	Bulgarian Journal of Physics 38(2011), 145-154.	International
7	An inhomogeneous cosmological model in electromagnetic bulk viscous fluid with variable (Λ)	Prespacetime Journal 6(2011)2, 810-825 .	International
8	Bianchi -V Cosmological Models with Viscous Fluid and Constant Deceleration Parameter in General Relativity	Turkish Journal of Physics 36(2012), 141-154.	International

9	Bianchi Type III Viscous Fluid Cosmological Model With a Varying Λ	Adarsha Journal of Research & Evaluation 2(2013), 5-11.	National
10	Kantowski- Sachs Dark Energy Model in a Scalar Tensor Theory of Gravitation	Amravati University Research Journal (2015) 94-105.	National
11	Bianchi Type V Viscous Fluid Cosmology With Linear Equation Of State And Hybrid Scale Factor	Prespacetime Journal 16(2016) 2062-2074.	International
12	LRS Bianchi Type I Magnetized Anisotropic dark energy models with variable equation of state	Elixir Space Science 103 (2017) 45758-45767.	International
13	Kantowski–Sachs Bulk Viscous String Cosmological Model in $f(R, T)$ Gravity with Time Varying Deceleration Parameter	Global Journal of Science Frontier Research: A Physics and Space Science 18 (2018)39-46.	International
14	Axially Symmetric Cosmological Models In Gravity With Time Varying Deceleration Parameter	International Journal of Research in Advent Technology 6 (5)(2018) 419-427.	International
15	Dark Matter and Holographic Dark Energy Models In Different Scenarios Of The Universe	International Journal of Science and Research (IJSR)(2018)52-60	International
16	Bianchi Type VI Model With Anisotropic Dark Energy In A Scalar Tensor Theory of Gravitation	Research Journey International E Research Journal ISSN-2348-7143Special Issue- 110(F)	International
17	Use of ICT in Teaching Learning and Evaluation of Mathematics	National Seminar on Revised Accreditation Framework and Institutional Preparation: An Overview	National
18	Cylindrically Symmetric Dark Energy Model With Perfect Fluid in Modified Theory of Gravity	Journal of Engineering Sciences 11, 4(2020)	National
19	Bulk viscous LRS bianchi type-I cosmological model of the inflationary universe in general relativity	International Journal of Physics and Mathematics	National
20	Breaking RSA: Factoring of Integers Using $n = pq$ and $r = p - q$	Parakh Journal	National
21	Bianchi Universe in $f(R, T)$ Gravity with Time Varying Deceleration Parameter	International Journal of Innovative Research in Technology	National
22	Two Fluid Anisotropic Model With Hybrid Scale Factor	International Journal of Science and Research	National

23	Behavior of Bianchi Type V Model In Modified Theory of Gravity With Specific form of Hubble Parameter	Jordan Journal of Physics 16-1 (2023)	International
24	Bianchi Type V Cosmological Scenario In $f(R,T)$ Gravity Theory With Special Form Of Scale Factor	Journal of advanced zoology 44-S8(2023)	National
25	Exploring the Plane Symmetric Cosmological Model of Interacting Fluid In $f(R, T)$ Gravity	J. Electrical System 20-3(2024)	International
26	Bianchi v cosmological model with strange quark matter in $f(r)$ gravity	J. of Ramanujan Society of Mathematics and Mathematical Sciences 12-1(2024)	National

Details of Workshops/Conferences/Seminars/Symposia /Paper Presented

Sr.	Title of the Paper	Name of the Conf./Seminar Workshop, Venue and Duration
1	Bianchi Type VI Bulk Viscous Fluid String Cosmological Model In General Relativity	State Level Seminar on Recent Trends in Mathematics and their Applications organized by Sardar Patel Mahavidyalaya, Chandrapur (21 Mar 2009)
2	Bianchi -V Cosmological Models with Perfect Fluid and Constant Deceleration Parameter in General Relativity	National Conference on Recent Trends in Mathematics organized by G.V.I.S.H. Amravati.(18-19 Sept.2009)
3	Bianchi Type VI Bulk Viscous Fluid String Cosmological Model In General Relativity	State Level Seminar on Recent Developments in Relativity Organized by Shri. R.R. Lahoti College Warud. (18 Dec. 2009)
4	An Inhomogeneous Cosmological Model In Electromagnetic Bulk Viscous Fluid With Variable (Λ)	National Conference on Recent Trends in Mathematics and its Applications in Astronomy Organized by Mungsaji Maharaj Mahavidyalaya, Darwaha Dist. Yavatmal (27-28 Feb. 2010)
5	A New Class of Inhomogeneous Magnetized Viscous Fluid String Cosmological Models with Variable (Λ)	National Conference on Recent Trends in Engineering Sciences organized by Dr. Bhausaheb Nandurkar College of Engg.& Technology, Yavatmal (11-12 Oct. 2010)
6	Non-Linear Viscous Bianchi Type V Cosmological Models With Cosmological Constant Λ	National Conference on Mathematical Sciences organized by Shri. Dr. R. G. Rathod Arts & Science College Murtizapur, Akola (18-19 Jan 2013)
7	Bulk Viscous Fluid Plane Symmetric Cosmological Model With Varying Λ	National Conference on Recent Trends in Mathematics organized by Gopikabai Sitaram Gawande Mahavidyalaya, Umarkhed, Yavatmal (21 Sept 2013)

8	Bianchi Type V String Cosmological Models With Constant Deceleration Parameter In General Relativity	International Conference on Mathematical Sciences (28-31 Dec 2013)
9	Bulk Viscous Fluid Plane Symmetric Cosmological Model with varying Λ	National Conference on Mathematical Tools in Science and Technology (8-9 May 2014)
10	D. M. & Holographic DE Models in Different Scenarios of the Universe	International Conference on General Relativity (25-28 Nov. 2015)
11	Bianchi Type VI Bulk Viscous String Cloud Universe Attached to Strange Quark Matter	National Conference on Recent Advances In Mathematical Sciences (17-18 June 2016)
12	Kantowski-Sachs Bulk Viscous String Cosmological Model in $f(R, T)$ Gravity with Time Varying D.P.	International Conference on Algebra, Discrete Mathematics and Applications (ICADMA 2017) (9-11 December 2017)
13	Axially Symmetric Cosmological Models In Gravity With Time Varying Deceleration Parameter	International Conference on Recent Trends in Science and Technology (22-23 March 2018)
14	The Anisotropic cosmological Models in $f(R, T)$ gravity with Variable Deceleration Parameter	National Conference on Emerging Trends in Science (1-2 February 2019)
15	Use of ICT in Teaching Learning and Evaluation of Mathematics	National Seminar on Revised Revised Accreditation Framework and Institutional Preparation: An Overview
16	Bianchi Type III string Cosmological Model in $f(R, T)$ Gravity	National Conference on Cryptography, Thermoelasticity and General Relativity”
17	Marder Type Bulk Viscous String Cosmological Universe In $f(R, T)$ Gravity With Time Varying Deceleration	International Conference on Advances In Physical, Chemical and Mathematical Sciences

Project Completed/Ongoing

Projects	Title of the Project	Completed/ Ongoing	Funding Agency Lett. No.	Remark
	The role of Cosmological Constant (Λ) in the evolution of universe.	Completed	UGC File No.:23-1773/10(WRO)	2 years

Participation as Chair Person / Referee for Research Paper / Special Guest / Member LOC / Master of Ceremony

Sr. No.	Chair Person / Referee for Research Paper / Special Guest / Member LOC	Title of Conference / Seminar	Event Organized by	International (Within Country) National
1	Resource Person and Chair The Session	International Conference on Mathematical Sciences & Its Applications	School of Mathematical Sciences SRTMU, Nanded	International
2	Judge	National Conference on Exploring the Frontiers of Science: Collaborations, Innovations, and Sustainability	Adarsha Science, J. B. Arts and Birla Commerce Mahavidyalaya, Dhamang aon Rly	National

Position held or holding if any

Sr. No.	Position
1	Life Member of Indian Mathematical Society
2	Life Member of Indian Science Congress
3	University Nominee/Subject Expert of SGBA University for the recruitment of Assistant Professors in Mathematics in various colleges

M.Phil/Ph.D. Guidance/Supervisor & M.Phil., Ph.D. Referee:

Degree	No. of Students	Awarded/Pursuing/Evaluation
Ph.D.	04	Pursuing
M.Phil	02	Referee for dissertation Evaluation

Patents Published/Granted

Title	Application No.
Multiple input, multiple output (MIMO) wireless transmission systems using QR decomposition method	202341038910A
Adaptive Integration and Differentiation techniques Through Fixed Point Analysis For Real Time Systems	202341072138A