



Dr. Nitesh Gangadharrao Ghungarwar

M.Sc. Mathematics, Ph.D., NET–JRF, SET, GATE

Assistant Professor, Department of Mathematics

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Academic Profile:

I am an Assistant Professor of Mathematics with over six years of full-time teaching experience at the undergraduate level. My teaching responsibilities include delivering courses in pure and applied mathematics, mentoring students for competitive examinations, and actively participating in academic and examination-related activities. My research interests lie in cosmology and modified theories of gravity, with a particular focus on $f(T)$, $f(R, T)$, fractal gravity, and observational cosmology. I have published research articles in reputed Scopus, Web of Science, and Elsevier-indexed journals and have presented my work at several national and international conferences, including abroad. My academic work reflects a strong commitment to both quality teaching and impactful research.

Academic Qualifications

Degree/Eligibility	Institution	Year	Specialization
Ph.D.	Swami Ramanand Teerth Marathwada University, Nanded	23 Aug 2025	Cosmological Solutions of Modified Theories of Gravity
SET	Savitribai Phule Pune University	2019	Mathematics
GATE	IIT Madras	2019	Mathematics
NET-JRF	CSIR-NET Delhi	2017	Mathematics
GATE	Indian Institute of Science	2016	Mathematics
M.Sc.	SRTM University, Nanded	2015	Mathematics
B.Sc.	Shri Shivaji College, Parbhani	2012	Mathematics, Physics, Electronics
H.S.C.	Aurangabad Board	2008	Mathematics, Physics, Chemistry, Biology
S.S.C.	Aurangabad Board	2006	Marathi, Hindi, English, Science, Mathematics

Teaching Experience:

Six years of full-time teaching experience as Assistant Professor of Mathematics.

Research Publications:

Sr. No	Title of Paper	Name of Journal/ Year of Publication	ISSN	Impact Factor	Scopus/Web of Science/ Elsevier
1	Perfect Fluid with Heat flow in $f(T)$ Theory of Gravity	East European Journal of Physics (2024)	2312-4334	1.8	Scopus, Web of Science
2	Observational Constraints in Quark and Strange Quark matter in $f(R,T)$ Gravity	Astronomy and Computing	2213-1345	1.8	Elsevier
3	Parameterized Hubble parameter with observational constraints in fractal gravity	Astronomy and Computing	2213-1345	1.8	Elsevier
4	Cubic Parametrization of the Deceleration Parameter Within $f(T)$ Gravity	Research in Astronomy and Astrophysics	1674-4527	2.8	Scopus, Web of Science
5	Evolution of the Hubble parameter in nonlinear $f(T)$ theory of gravity	International Journal of Geometric Methods in Modern Physics	0219-8878 (Print), 1793-6971 (Online)	1.3	Scopus, Web of Science, Q1 Journal
6	Cosmological dynamics of an LRS bianchi type-I model in $f(R, Lm)$ gravity with a variable deceleration parameter	Journal of Subatomic Particles and Cosmology	3050-4805	--	Elsevier
7	Why are we curious about the Universe? A Philosophical and Comparative analysis	International Journal of Creative Research Thoughts	2320-2882	--	Peer Reviewed
8	Evolution of Wormholes in GR and Modified Gravity Theories	International Journal of Recent Development in Engineering and Technology	2347-6435	--	Peer Reviewed

Refresher/Orientation :

Sr. No.	Name of the Course / Summer School	Place	Duration	Sponsoring Agency
1.	4-Week Induction/Orientation Programme	Teaching Learning Centre, Ramanujan College, University of Delhi.	04 Jun 2020 - 1 July 2020	UGC Sponsored
2.	UGC Sponsored S Refresher Course	Teaching Learning Centre, Ramanujan College, University of Delhi.	16 March 2021-30 March 2021	UGC Sponsored

Paper Presented in Conferences / Seminars:

Sr. No.	Invited Talk/ Paper presented	Title of Conference / Seminar	Event Organized by	International / national
1	Domain Walls Cosmological Models in $f(T)$ theory of gravity with electromagnetic field	International Conference on Mathematical Sciences and Its Application(ICMSA-2022)	School of Mathematical Sciences, S.R.T.M. University, Nanded	International
2	Bianchi Type-I solution in $f(T)$ gravity for perfect fluid with heat flow	National Conference on Recent Trends in Pure and Applied Mathematics (2022)	Science College, Nanded	National
3	Philosophical Reflections on the curiosity of the Universe	International Conference on Latest Advances, Contributions and Applications in Non-linear Analysis (2024)	Gayatri Vidya Parishad College of Engineering, Visakhapatnam	International
4	Two fluids in $f(T)$ gravity with observational constraints	International conference on Nonlinear Analysis and applications (ICNAA 2024)	Sri Dev Suman Uttarakhand University, Rishikesh	International
5	Perfect fluid with heat flow in $f(T)$ theory of gravity	International Conference on Gravitation, Astrophysics and Cosmology (2024)	Centre for cosmology and GLA University, Mathura	International
6	Cubic parametrization of the deceleration parameter within $f(T)$ gravity	Cosmological fundamentals observables and novel discoveries in universe evolution (2025)	University of Geneva, Switzerland	International (Abroad)
7	Perfect fluid Dynamics with observational Constraints in $f(T)$ Gravity	Black Holes, Neutron Stars, and Gravitational Waves at Black Sea, Varna, Bulgaria (2025)	University of Tubingen and University of Sofia, Varna Bulgaria	International (Abroad)
8	Fractional order Cosmological Dynamics with a parametrized Hubble function	International Conference on Development in Physical Sciences, Mathematical Sciences and Computational Sciences	Rajarshi Shahu Mahavidyalay, Latur	International

Patents Awards:

Sr. No.	Title of Patents	Award conferring Organization	National/ International	Patent Number
1	Geometric Shape Analyser	Government of India	National	224371

Publications other than journal articles (books, chapters in books):

Sr. No.	Book/ Chapter	Book Title, editor & publisher	Publication International/ National/ Local	ISSN/ ISBN No.	Whether approved by University	Whether you are the main author
1.	Book	A practical Book of Equation Editor SEC Lab course, Dnyanpath Publication (India)	National	9001: 2015	Yes	Yes

Delivered Guest Lecture as a Resource Person:

- Three Days workshop on NET/SET/JAM in Mathematical Sciences organized by Rayat Shikshan Sanstha's, Karmaveer Bhaurao Patil College, Vashi, Department of Mathematics on Linear Algebra on 12th September 2022.
- One Day workshop on Higher Education and research in Mathematics organized by Rayat Shikshan Sanstha's, Karmaveer Bhaurao Patil College, Vashi, Department of Mathematics on Recent Trends in Mathematics on 8th September 2022.
- On the occasion of National Mathematics Day organized by GS College Khamgaon on December 22nd 2025 on Mathematics Pathways after 12th.

References

Prof. Dr. D. D. Pawar

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