

Curriculum Vitae

Dr. D. G. Prakasha

Professor, Department of Mathematics

Davangere University, Shivangangothri – 577 007,

Davangere, Karnataka State.

Qualification : M. Sc., Ph. D.

Areas of Specialization : Differential Geometry, Fractional Calculus,
Numerical Analysis, Mathematical Modelling,
Applicable Mathematics.

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Credentials (as per Google Scholar) : Citations- 5475, Publications-149, h-index-45, i-10 index- 109

Research Supervision : Ph. D. – Guided – 17, Guiding – 07



Educational Qualification

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	Ph.D.	Subject : Mathematics Specialization : Differential Geometry Title of the Thesis : Certain Structures on Manifolds	Kuvempu University	2008
2	PG (M. Sc.)	Subject : Mathematics Specialization : Differential Geometry, Fluid Mechanics	Kuvempu University	2005
3	UG (B. Sc.)	Subjects: Electronics, Mathematics, Computer Science	Kuvempu University	2003

Professional Details:

Sl. No.	Position	Institution/University	From	To	Pay Scale
1	Professor	Department of Mathematics, Davangere University, Davangere-7	27 th May, 2022	Present	1,44,200/-to 2,18,200/- (Present Basic Pay 1,67,200/-)
2	Associate Professor		27 th May, 2019	26 th May, 2022	1,31,400/-to 2,17,100/-
3	Assistant Professor	Department of Mathematics, Karnatak University, Dharwad-3	05 th March, 2018	26 th May, 2019	15,600/- to 39,100/- (with AGP 8,000/-)
4	Assistant Professor		05 th March, 2013	04 th March, 2018	15,600/-to 39,100/- (with AGP 7,000/-)
5	Assistant Professor		05 th March, 2009	04 th March, 2013	15,600/-to 39,100/- (with AGP 6,000/-)

Research Projects: 01 (Completed)

Sl. No.	Title of the Project	Funding Agency	Project Budget	Period
1.	On symmetric and recurrent type of Riemannian and semi-Riemannian manifolds	University Grants Commission, New Delhi	Rs. 8,35,800/-	01 st Feb-2011 to 31 st Jan-2014

Books Published:

1	➤ Title : q-HATM to solve fractional differential equations Authors : P. Veeresha and D. G. Prakasha Publisher : Lambert Academic Publishing Year : 2019 ISBN : 978-613-9-45671-0
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Book Chapters Published:

1	Book : Fractional Calculus in Medical and Health Science Chapter : Fractional SIR Epidemic Model of Childhood Disease with Mittag-Leffler Memory Authors : P. Veeresha, D. G. Prakasha, D. Kumar Publisher : Taylor & Francis Group (CRC Press) Year : 2020 DOI : 10.1201/978042934 0567-9
2	Book : The International Congress of the Moroccan Society of Applied Mathematics Chapter : An efficient approach for the model of thrombin receptor activation mechanism with Mittag-Leffler function Authors : P. Veeresha, D. G. Prakasha, Z. Hammouch Publisher : Springer Year : 2020 DOI : 10.1007/978-3-030-62299-2_4

Research Publications: (List of Scopus indexed journals only - 146)

1	Prakasha D.G., Kumar K.G., Sharaf Saeed W., Afzal A., <i>Thermophoresis and Brownian motion effect on hybrid nanoparticles flow over a wedge surface by considering double stratification effects</i> , (2026) Numerical Heat Transfer, Part A: Applications 87 (1), 2314229
2	Iqbal N., Archana D. K., Darshan Kumar C.V., Naik, D. M., Prakasha D.G., Sarwe D. U., <i>A fractional approach to cooling dynamics with variable heat transfer coefficient using two efficient numerical techniques</i> , (2026) International Journal of Numerical Methods for Heat & Fluid Flow, 1-21
3	Naik L.S., Prakasha D. G., Jagannatha C.G., Jagadeesha K.C., Abhilasha S.K., <i>Artificial neural network approach to analyse the effect of Solvent fraction on off-centered stagnation flow towards a rotating disk</i> (2026) Thermal Advances, 100144
4	Sri;latha P., Abhilasha S.K., Prakasha D.G., Sid K.V.N.S., Sanju B.S., <i>Numerical and empirical approach to study the influence of high-frequency oscillating magnetic field and nanoparticle aggregation on rough revolving disk in a porous medium</i> , (2026) International Journal of Thermofluids, 101631
5	Naik D.M., Manula T., Prakasha D.G., Khan M.A., <i>Observational constraints on modified $f(T, T)$ gravity models</i> , (2026) Physics of the Dark Universe, 102321
6	Darshan Kumar C.V., Prakasha D.G., Amruthalakshmi M.R., <i>A comprehensive study on dynamical analysis and numerical simulation of foam drainage equation using time-fractional derivative</i> , (2025) Franklin Open, 14, 100456

7	Faris Mahdi Alwan, Archana D.K., Prakasha D.G., Ali Hasan Ali, <i>Computational optimization of fractional-order influenza SIR epidemic modeling using two effective techniques</i> , (2025) Commun. Math. Biol. Neurosci., 2025
8	Qiliang Chen, Naveen K., Prakasha D.G., Baskonus H.M., <i>On the Qualitative Stability Analysis of Fractional-Order Corruption Dynamics via Equilibrium Points</i> , (2025) Fractal and Fractional, 9(10), 666
9	Naveed Iqbal, Archana D.K., Mohammad Nazrul Islam Khan, Prakasha D.G., <i>A qualitative study on the stability and existence of solutions in a fractional-order water pollution model via the predictor-corrector approach</i> , (2025) Scientific Reports, 15(1), 35747
10	Arya A.S., Sudharani MVVNL, Reddy M.G., Prakasha D.G., Ganesh Kumar K., <i>Exponential space source characteristics on non-Newtonian slip flow and radiated heat transfer through a curved surface</i> , (2025) Journal of Thermal Analysis and Calorimetry, 1-12
11	Vinay Acharya, Ganesh Kumar K., Krishnamurthy M.R., Prakasha D.G., <i>Computational analysis of non-Fick's mass flux flow and thermophoretic particle deposition heat transfer for a biomagnetic fluid over a sheet</i> , (2025) Journal of Thermal Analysis and Calorimetry, 1-15
12	Naveen K., Prakasha D.G., Mofarreh F., Haseeb A., <i>A study on solutions of fractional order equal-width equation using novel approach</i> , (2025) Modern Physics Letters B, 39(20), 2550058
13	DK Archana, DG Prakasha, <i>Numerical Simulation of Time Fractional Nonlinear Heat Transfer Equation With Predictor-Corrector Approach</i> , (2025) Heat Transfer, 54(7), 4618-4625
14	Swathi H.R., Indira Ramarao, Jagadeesha S., Prakasha D.G., <i>Peristaltic Flow of Nanofluid with Temperature Dependent Viscosity in an Annulus</i> , (2025) Partial Differential Equations in Applied Mathematics, 15, 101240
15	Arya A.S., Sudharani MVVNL, Gnaneswara Reddy M., Prakasha D.G., Ganesh Kumar K., <i>Stratified heat generation in magnetohydrodynamics dissipative flow micropolar fluid through curved surface: A Computational Analysis</i> , (2025) International Journal of Thermofluids, 27, 101265
16	Veeresha P., Prakasha D.G., Chandrali Baishya, Baskonus H.M., <i>Analysis of a mathematical model of the aggregation process of cellular slime mold within the frame of fractional calculus</i> , (2025) International Journal of Modelling and Simulation, 45(3), 982-992
17	Ganesh Kumar K., Prakasha D.G., Lal Sing Naik, Waseem Sharaf Saeed, Aqeel Afzal, <i>Developed by Koo and Kleinstreuter model, the time-dependent Blasius-Rayleigh-Stokes flow and melting heat transfer over a semi-infinite hot plate</i> , (2025) International Journal of Modelling and Simulation, 45(3), 970-981
18	Darshan Kumar C.V., Prakasha D.G., Nasser Bin Turki, <i>Exploring the dynamics of fractional-order nonlinear dispersive wave system through homotopy technique</i> , (2025) Open Physics, 23(1), 20250128
19	Naveen K., Mukhtar S., Mahnashi A.M., Rasool Shah, Prakasha D.G., Archana D.K., <i>A robust technique to study fractional model describing economic and environmental mathematical system</i> , (2025) Engineering Computations, 42(3), 1205-1224
20	Naveed Iqbal, Archana D.K., Prakasha D.G., Meraj Ali Khan, Abdul Haseeb, Ibrahim Al-Dayel, <i>Fractional-order computational modeling of pediculosis disease dynamics with predictor-corrector approach</i> , (2025) Scientific Reports, 15(1), 11559

21	Darshan Kumar C.V., Prakasha D.G., Hadimani B.S., <i>A numerical study on the dynamics of SIR epidemic model through Genocchi wavelet collocation method</i> , (2025) Scientific Reports, 15(1), 9780
22	Naveed Iqbal, Chethan H.B., Prakasha D.G., Meraj Ali Khan, <i>A new transform technique for the analysis of the time-fractional water pollution model and Bloch equation</i> , AIMS Mathematics, 10(9), 20606-20625
23	Chethan, H.B., Turki, N.B., Prakasha, D.G., <i>High performance computational approach to study model describing reversible two-step enzymatic reaction with time fractional derivative</i> , (2024) Scientific Reports 14(1), 21114
24	Kumar, C.V.D., Prakasha, D.G., Veeresha, P., Kapoor, M., <i>A homotopy-based computational scheme for two-dimensional fractional cable equation</i> , (2024), Modern Physics Letters B, 38(32), 2450292
25	Veeresha, P., Prakasha, D.G., Kumar, S., <i>A fractional model for propagation of classical optical solitons by using nonsingular derivative</i> , (2024), Mathematical Methods in the Applied Sciences, 2024, 47(13), pp. 10609–10623
26	Archana, D.K., Prakasha, D.G., Bin Turki, N., <i>Modelling Yeast Prion Dynamics: A Fractional Order Approach with Predictor–Corrector Algorithm</i> , (2024), Fractal and Fractional, 8(9), 542
27	Prakasha, D.G., Bin Turki, N., Deepika, M. V., Ünal, İ., <i>On LP-Kenmotsu Manifold with Regard to Generalized Symmetric Metric Connection of Type (α, β)</i> , (2024), Mathematics, 12(18), 2915
28	Kumar, K.G., Praveena, M.M., Vishwanath, S., ... Sadikova, A., Waqas, M., <i>Enhancement of heat transfer through alloys and nanoparticle over a melted sheet: A Koo and Kleinstreuer (K-K) model</i> , (2024), Partial Differential Equations in Applied Mathematics, 11, 100787
29	Kumar, K.G., Vidyarani, N.J., Mahesh, ... Abduvalieva, D., Khan, M.I., <i>Analyzing the influence of magnetic dipole on non-Newtonian fluid flow over a sheet with non-uniform radiation</i> , (2024), Partial Differential Equations in Applied Mathematics., 2024, 11, 100752
30	Vidyarani, N.J., Ganesh Kumar, K., Padmavathi, R., ... Prakasha, D.G., Sampath Kumar, V.S., <i>Magnetic swirling flow and Cattaneo–Christov heat and mass flux over a stretchable cylinder: A dual stratification model</i> , (2024), Ain Shams Engineering Journal, 15(8), 102869
31	Naik, L.S., Prakasha, D.G., Sudharani, M.V.V.N.L., Kumar, K.G., <i>Effects of ohmic and activation energy on the physical characteristics of MHD flow and variable heat transfer to a different fluids</i> , International Journal of Modern Physics B, 2024, 38(18), 2450241
32	Vidyarani, N.J., Mahesh, Praveena, M.M., Abduvalieva, D., Khan, M.I., <i>A Comparative study of flow and C–C heat flux over a magnetic field under the influence of nanomaterial and carbon nanotubes</i> , Partial Differential Equations in Applied Mathematics, 2024, 10, 100696
33	Naik, L.S., Prakasha, D.G., Sudharani, M.V.V.N.L., Kumar, K.G., <i>A bidirectional investigation of the effect of activation energy on carbonized fluid flow and radiative heat transfer across a stretched surface</i> , International Journal of Modern Physics B, 2024, 38(9), 2450134
34	Naik, L.S., Prakasha, D.G., Praveena, M.M., Krishnamurthy, M.R., Ganesh Kumar, K., <i>Stratification flow and variable heat transfer over different non-Newtonian fluids under the consideration of magnetic dipole</i> , International Journal of Modern Physics B, 2024, 38(5), 2450071

35	Kumar, P., Gao, W., Veeresha, P., Prakasha, D.G., Baskonus, H.M., <i>Solution of a dengue fever model via fractional natural decomposition and modified predictor-corrector methods</i> , International Journal of Modeling, Simulation, and Scientific Computing, 2024, 15(1), 2450007
36	Naik L.S., Prakasha D.G., Sudharani M.V.V.N.L., Kumar K.G., <i>A bidirectional investigation of the effect of activation energy on carbonized fluid flow and radiative heat transfer across a stretched surface</i> , (2023) International Journal of Modern Physics B, art. no. 2450134. DOI: 10.1142/S0217979224501340
37	Veeresha P., Prakasha D.G., Baskonus H.M., <i>An efficient technique for a fractional-order system of equations describing the unsteady flow of a polytropic gas</i> (2019) Pramana - Journal of Physics, 93 (5), art. no. 75. DOI: 10.1007/s12043-019-1829-9
38	Prakasha D.G., Sudharani M.V.V.N.L., Kumar K.G., Chamkha A.J., <i>Comparative study of hybrid (graphene/magnesium oxide) and ternary hybrid (graphene/zirconium oxide/magnesium oxide) nanomaterials over a moving plate</i> , (2023) International Communications in Heat and Mass Transfer, 140, art. no. 106557. DOI: 10.1016/j.icheatmasstransfer.2022.106557
39	Veeresha P., Prakasha D.G., Kumar S., <i>A fractional model for propagation of classical optical solitons by using nonsingular derivative</i> , (2020) Mathematical Methods in the Applied Sciences. DOI: 10.1002/mma.6335
40	Gowda P.D., Naik D.M., Ravindranatha A.M., Venkatesha V., <i>Riemann Solitons On (K,M)-Almost Cosymplectic Manifolds</i> , (2023) Communications of the Korean Mathematical Society, 38 (3), pp. 881 – 892. DOI: 10.4134/CKMS.c220243
41	Veeresha P., Prakasha D.G., <i>Solution for fractional generalized Zakharov equations with Mittag-Leffler function</i> , (2020) Results in Engineering, 5, art. no. 100085. DOI: 10.1016/j.rineng.2019.100085
42	Veeresha P., Prakasha D.G., Magesh N., Nandeppanavar M.M., Christopher A.J., <i>Numerical simulation for fractional Jaulent–Miodek equation associated with energy-dependent Schrödinger potential using two novel techniques</i> , (2021) Waves in Random and Complex Media, 31 (6), pp. 1141 – 1162. DOI: 10.1080/17455030.2019.1651461
43	Veeresha P., Prakasha D.G., Singh J., Kumar D., Baleanu D., <i>Fractional Klein-Gordon-Schrödinger equations with Mittag-Leffler memory</i> , (2020) Chinese Journal of Physics, 68, pp. 65 – 78. DOI: 10.1016/j.cjph.2020.08.023
44	Punith Gowda R.J., Baskonus H.M., Naveen Kumar R., Prakasha D.G., Prasannakumara B.C., <i>Evaluation of heat and mass transfer in ferromagnetic fluid flow over a stretching sheet with combined effects of thermophoretic particle deposition and magnetic dipole</i> , (2021) Waves in Random and Complex Media. DOI: 10.1080/17455030.2021.1969063
45	Veeresha P., Prakasha D.G., Baleanu D., <i>An efficient numerical technique for the nonlinear fractional Kolmogorov-Petrovskii-Piskunov equation</i> , (2019) Mathematics, 7 (3), art. no. 265. DOI: 10.3390/math7030265
46	Veeresha P., Prakasha D.G., Baskonus H.M., Yel G., <i>An efficient analytical approach for fractional Lakshmanan-Porsezian-Daniel model</i> , (2020) Mathematical Methods in the Applied Sciences, 43 (7), pp. 4136 – 4155. DOI: 10.1002/mma.6179
47	Umavathi J.C., Prakasha D.G., Alanazi Y.M., Lashin M.M.A., Al-Mubaddel F.S., Kumar R., Gowda R.J.P., <i>Magnetohydrodynamic squeezing Casson nanofluid flow between parallel convectively heated disks</i> , (2023) International Journal of Modern Physics B, 37 (4), art. no. 2350031. DOI: 10.1142/S0217979223500315

48	Veeresha P., Prakasha D.G., <i>A reliable analytical technique for fractional Caudrey-Dodd-Gibbon equation with Mittag-Leffler kernel</i> , (2020) Nonlinear Engineering, 9 (1), pp. 319 – 328. DOI: 10.1515/nleng-2020-0018
49	Sudharani M.V.V.N.L., Prakasha D.G., Kumar K.G., Chamkha A.J., <i>Computational assessment of hybrid and tri hybrid nanofluid influenced by slip flow and linear radiation</i> , (2023) European Physical Journal Plus, 138 (3), art. no. 257. DOI: 10.1140/epjp/s13360-023-03852-2
50	Gao W., Veeresha P., Prakasha D.G., Baskonus H.M., <i>Regarding new numerical results for the dynamical model of romantic relationships with fractional derivative</i> , (2022) Fractals, 30 (1), art. no. 2240009. DOI: 10.1142/S0218348X22400096
51	Kumar P., Gao W., Veeresha P., Erturk V.S., Prakasha D.G., Baskonus H.M., <i>Solution of a dengue fever model via fractional natural decomposition and modified predictor-corrector methods</i> , (2023) International Journal of Modeling, Simulation, and Scientific Computing, art. no. 2450007. DOI: 10.1142/S1793962324500077
52	Malagi N.S., Prakasha D.G., Veeresha P., Prasannakumara B.C., <i>Fractional Reaction–Diffusion Model: An Efficient Computational Technique for Nonlinear Time-Fractional Schnakenberg Model</i> , (2023) Lecture Notes in Networks and Systems, 415, pp. 427 – 454. DOI: 10.1007/978-981-19-0179-9_26
53	Prakasha D.G., Fernández L.M., Mirji K., <i>The M-projective curvature tensor field on generalized (κ, μ)-paracontact metric manifolds</i> , (2020) Georgian Mathematical Journal, 27 (1), pp. 141 – 147. DOI: 10.1515/gmj-2017-0054
54	Prakasha D.G., Amruthalakshmi M.R., Veeresha P., <i>Static perfect fluid space-Time and paracontact metric geometry</i> , (2022) International Journal of Geometric Methods in Modern Physics, 19 (4), art. no. 2250052. DOI: 10.1142/S0219887822500529
55	Gao W., Veeresha P., Prakasha D.G., Baskonus H.M., <i>New numerical simulation for fractional Benney–Lin equation arising in falling film problems using two novel techniques</i> , (2021) Numerical Methods for Partial Differential Equations, 37 (1), pp. 210 – 243. DOI: 10.1002/num.22526
56	Prakash A., Prakasha D.G., Veeresha P., <i>A reliable algorithm for time-fractional Navier-Stokes equations via Laplace transform</i> , (2019) Nonlinear Engineering, 8 (1), pp. 695 – 701. DOI: 10.1515/nleng-2018-0080
57	Naik L.S., Prakasha D.G., Sudharani M.V.V.N.L., Kumar K.G., <i>Effects of ohmic and activation energy on the physical characteristics of MHD flow and variable heat transfer to a different fluids</i> , (2023) International Journal of Modern Physics B, art. no. 2450241. DOI: 10.1142/S0217979224502412
58	Veeresha P., Prakasha D.G., Baskonus H.M., <i>New numerical surfaces to the mathematical model of cancer chemotherapy effect in Caputo fractional derivatives</i> , (2019) Chaos, 29 (1), art. no. 013119. DOI: 10.1063/1.5074099
59	Veeresha P., Prakasha D.G., Baleanu D., <i>Analysis of fractional Swift-Hohenberg equation using a novel computational technique</i> , (2020) Mathematical Methods in the Applied Sciences, 43 (4), pp. 1970 – 1987. DOI: 10.1002/mma.6022
60	Wang Y., Veeresha P., Prakasha D.G., Baskonus H.M., Gao W., <i>Regarding Deeper Properties of the Fractional Order Kundu-Eckhaus Equation and Massive Thirring Model</i> , (2022) CMES - Computer Modeling in Engineering and Sciences, 133 (3), pp. 697 – 717. DOI: 10.32604/cmes.2022.021865
61	Prakasha D.G., Ravindranatha A.M., Chaubey S.K., Veeresha P., Suh Y.J., <i>h-almost Ricci Solitons on Generalized Sasakian-space-forms</i> , (2022) Kyungpook Mathematical Journal, 62 (4), pp. 715 – 728. DOI: 10.5666/KMJ.2022.62.4.715

62	Veeresha P., Malagi N.S., Prakasha D.G., Baskonus H.M., <i>An efficient technique to analyze the fractional model of vector-borne diseases</i> , (2022) <i>Physica Scripta</i> , 97 (5), art. no. 054004. DOI: 10.1088/1402-4896/ac607b
63	Veeresha P., Prakasha D.G., <i>Solution for Fractional Kuramoto–Sivashinsky Equation Using Novel Computational Technique</i> , (2021) <i>International Journal of Applied and Computational Mathematics</i> , 7 (2), art. no. 33. DOI: 10.1007/s40819-021-00956-0
64	Veeresha P., Prakasha D.G., <i>A novel technique for (2+1)-dimensional time-fractional coupled Burgers equations</i> , (2019) <i>Mathematics and Computers in Simulation</i> , 166, pp. 324 – 345. DOI: 10.1016/j.matcom.2019.06.005
65	Prakasha D.G., Harish H., Veeresha P., Venkatesha, <i>The zamkovoy canonical paracontact connection on a para-kenmotsu manifold</i> , (2021) <i>Cubo</i> , 23 (2), pp. 191 – 206. DOI: 10.4067/S0719-06462021000200191
66	Prakasha D.G., Amruthalakshmi M.R., Suh Y.J., <i>Geometric characterizations of almost Ricci-Bourguignon solitons on Kenmotsu manifolds</i> , (2024) <i>Filomat</i> , 38 (3), pp. 861 – 871. DOI: 10.2298/FIL2403861P
67	Prakasha D.G., Malagi N.S., Veeresha P., <i>New approach for fractional Schrödinger-Boussinesq equations with Mittag-Leffler kernel</i> , (2020) <i>Mathematical Methods in the Applied Sciences</i> , 43 (17), pp. 9654 – 9670. DOI: 10.1002/mma.6635
68	Veeresha P., Ilhan E., Prakasha D.G., Baskonus H.M., Gao W., <i>A new numerical investigation of fractional order susceptible-infected-recovered epidemic model of childhood disease</i> , (2022) <i>Alexandria Engineering Journal</i> , 61 (2), pp. 1747 – 1756. DOI: 10.1016/j.aej.2021.07.015
69	Prakasha D.G., Veeresha P., Singh J., <i>Fractional Approach for Equation Describing the Water Transport in Unsaturated Porous Media With Mittag-Leffler Kernel</i> , (2019) <i>Frontiers in Physics</i> , 7, art. no. 193. DOI: 10.3389/fphy.2019.00193
70	Veeresha P., Prakasha D.G., Singh J., <i>Solution for fractional forced KdV equation using fractional natural decomposition method</i> , (2020) <i>AIMS Mathematics</i> , 5 (2), pp. 798 – 810. DOI: 10.3934/math.2020054
71	Prakasha D.G., Prakash A., Nagaraja M., Veeresha P., <i>On (ϵ)-Lorentzian para-Sasakian Manifolds</i> , (2022) <i>Iranian Journal of Mathematical Sciences and Informatics</i> , 17 (2), pp. 243 – 252. DOI: 10.52547/ijmsi.17.2.243
72	Veeresha P., Prakasha D.G., <i>Novel approach for modified forms of Camassa-Holm and Degasperis-Procesi equations using fractional operator</i> , (2020) <i>Communications in Theoretical Physics</i> , 72 (10), art. no. 105002. DOI: 10.1088/1572-9494/aba24b
73	Mirji K.K., Harish H., Prakasha D.G., <i>Bach tensor on $N(\kappa)$-paracontact metric 3-manifolds</i> , (2022) <i>Italian Journal of Pure and Applied Mathematics</i> , 47, pp. 884 – 893
74	Gao W., Veeresha P., Prakasha D.G., Baskonus H.M., Yel G., <i>New approach for the model describing the deathly disease in pregnant women using Mittag-Leffler function</i> , (2020) <i>Chaos, Solitons and Fractals</i> , 134, art. no. 109696. DOI: 10.1016/j.chaos.2020.109696
75	Prakasha D.G., Zengin F.O., Chavan V., <i>On M-projectively semisymmetric Lorentzian α-Sasakian manifolds</i> , (2017) <i>Afrika Matematika</i> , 28 (5-6), pp. 899 – 908. DOI: 10.1007/s13370-017-0493-9
76	Reddy M.G., Krishnamurthy M.R., Praveena M.M., Naik L.S., Prakasha D.G., Ganesh Kumar K., <i>Unsteady absorption flow and dissipation heat transfer over a non-Newtonian fluid</i> , (2022) <i>Waves in Random and Complex Media</i> . DOI: 10.1080/17455030.2022.2039418

77	Prakasha D.G., Veeresha P., Baskonus H.M., <i>Residual power series method for fractional Swift–Hohenberg equation</i> , (2019) <i>Fractal and Fractional</i> , 3 (1), art. no. 9, pp. 1 – 16. DOI: 10.3390/fractalfract3010009
78	Singh B.K., Baskonus H.M., Singh N., Gupta M., Prakasha D.G., <i>Study of Time-Fractional Nonlinear Model Governing Unsteady Flow of Polytropic Gas</i> , (2023) <i>Axioms</i> , 12 (3), art. no. 285. DOI: 10.3390/axioms12030285
79	Gao W., Veeresha P., Prakasha D.G., Baskonus H.M., Yel G., <i>A powerful approach for fractional Drinfeld–Sokolov–Wilson equation with Mittag-Leffler law</i> , (2019) <i>Alexandria Engineering Journal</i> , 58 (4), pp. 1301 – 1311. DOI: 10.1016/j.aej.2019.11.002
80	Prakasha D.G., Veeresha P., <i>Para-Sasakian manifolds and $\ast$-Ricci solitons</i> , (2019) <i>Afrika Matematika</i> , 30 (7-8), pp. 989 – 998. DOI: 10.1007/s13370-019-00698-9
81	Prakasha D.G., Amruthalakshmi M.R., Mofarreh F., Haseeb A., <i>Generalized Lorentzian Sasakian-Space-Forms with M-Projective Curvature Tensor</i> , (2022) <i>Mathematics</i> , 10 (16), art. no. 2869. DOI: 10.3390/math10162869
82	Veeresha P., Prakasha D.G., Kumar D., Baleanu D., Singh J., <i>An efficient computational technique for fractional model of generalized hirota-satsuma-coupled korteweg-de vries and coupled modified korteweg-de vries equations</i> , (2020) <i>Journal of Computational and Nonlinear Dynamics</i> , 15 (7), art. no. 071003. DOI: 10.1115/1.4046898
83	Prakash A., Veeresha P., Prakasha D.G., Goyal M., <i>A homotopy technique for a fractional order multi-dimensional telegraph equation via the Laplace transform</i> , (2019) <i>European Physical Journal Plus</i> , 134 (1), art. no. 19. DOI: 10.1140/epjp/i2019-12411-y
84	Prakasha D.G., Veeresha P., Baskonus H.M., <i>A Novel Approach for Fractional $(1 + 1)$ -Dimensional Biswas–Milovic Equation</i> , (2021) <i>International Journal of Applied and Computational Mathematics</i> , 7 (5), art. no. 187. DOI: 10.1007/s40819-021-01124-0
85	Veeresha P., Prakasha D.G., Magesh N., Christopher A.J., Sarwe D.U., <i>Solution for fractional potential KdV and Benjamin equations using the novel technique</i> , (2021) <i>Journal of Ocean Engineering and Science</i> , 6 (3), pp. 265 – 275. DOI: 10.1016/j.joes.2021.01.003
86	Veeresha P., Ilhan E., Prakasha D.G., Baskonus H.M., Gao W., <i>Regarding on the fractional mathematical model of tumour invasion and metastasis</i> , (2021) <i>CMES - Computer Modeling in Engineering and Sciences</i> , 127 (3), pp. 1013 – 1036. DOI: 10.32604/cmcs.2021.014988
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89	Veeresha P., Prakasha D.G., <i>An efficient technique for two-dimensional fractional order biological population model</i> , (2020) <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 11 (1), art. no. 2050005. DOI: 10.1142/S1793962320500051
90	Prakasha D.G., Saadeh R., Kachhia K., Qazza A., Malagi N.S., <i>A New Computational Technique for Analytic Treatment of Time-Fractional Nonlinear Equations Arising in Magneto-Acoustic Waves</i> , (2023) <i>Mathematical Problems in Engineering</i> , 2023, art. no. 6229486. DOI: 10.1155/2023/6229486

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92	Punith Gowda R.J., Baskonus H.M., Naveen Kumar R., Prasannakumara B.C., Prakasha D.G., <i>Computational Investigation of Stefan Blowing Effect on Flow of Second-Grade Fluid Over a Curved Stretching Sheet</i> , (2021) International Journal of Applied and Computational Mathematics, 7 (3), art. no. 109. DOI: 10.1007/s40819-021-01041-2
93	Prakasha D.G., Veeresha P., Baskonus H.M., <i>Analysis of the dynamics of hepatitis E virus using the Atangana-Baleanu fractional derivative</i> , (2019) European Physical Journal Plus, 134 (5), art. no. 241. DOI: 10.1140/epjp/i2019-12590-5
94	Unal I., Sari R., Prakasha D.G., <i>Ricci tensor on normal metric contact pair manifolds</i> , (2022) Balkan Journal of Geometry and its Applications, 27 (1), pp. 179 – 189
95	Amruthalakshmi M.R., Prakasha D.G., Bin Turki N., Unal I., <i>*-Ricci Tensor on a -Cosymplectic Manifolds</i> , (2022) Advances in Mathematical Physics, 2022, art. no. 7939654. DOI: 10.1155/2022/7939654
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103	Malagi N.S., Veeresha P., Prasannakumara B.C., Prasanna G.D., Prakasha D.G., <i>A new computational technique for the analytic treatment of time-fractional Emden-Fowler equations</i> , (2021) Mathematics and Computers in Simulation, 190, pp. 362 – 376. DOI: 10.1016/j.matcom.2021.05.030

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105	Safare K.M., Betageri V.S., Prakasha D.G., Veerasha P., Kumar S., <i>A mathematical analysis of ongoing outbreak COVID-19 in India through nonsingular derivative</i> , (2021) Numerical Methods for Partial Differential Equations, 37 (2), pp. 1282 – 1298. DOI: 10.1002/num.22579
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107	Prakasha D.G., Vanli A.T., Nagaraja M., Veerasha P., <i>Invariant Submanifolds of (ϵ)-Sasakian Manifolds</i> , (2020) Annals of the University of Craiova, Mathematics and Computer Science Series, 47 (2), pp. 346 – 356
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112	Naik D.M., Venkatesha, Prakasha D.G., <i>Certain results on Kenmotsu pseudo-metric manifolds</i> , (2019) Miskolc Mathematical Notes, 20 (2), pp. 1083 – 1099. DOI: 10.18514/MMN.2019.21
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134	Prakasha D.G., Hadimani B.S., <i>On the conharmonic curvature tensor of Kenmotsu manifolds with generalized Tanaka-Webster connection</i> , (2018) <i>Miskolc Mathematical Notes</i> , 19 (1), pp. 491 – 503. DOI: 10.18514/MMN.2018.1596
135	Prakasha D.G., Sudharani M.V.V.N.L., Kumar K.G., Elsaid E.M., Eid M.R., <i>Thermal amelioration of aluminium nano-alloys on swirling aqueous MHD viscous nanofluid flow via a deformable cylinder: Applying magnetic dipole</i> , (2023) <i>Journal of Thermal Analysis and Calorimetry</i> , 148 (13), pp. 6197 – 6206. DOI: 10.1007/s10973-023-12130-3
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139	Hui S.K., Gowda P.D., Chavan V., <i>On generalized ϕ-recurrent generalized Sasakian-space-forms</i> , (2017) <i>Thai Journal of Mathematics</i> , 15 (2), pp. 323 – 332
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141	Hui S.K., Prakasha D.G., <i>On the C-Bochner Curvature Tensor of Generalized Sasakian-Space-Forms</i> , (2015) <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 85 (3), pp. 401 – 405. DOI: 10.1007/s40010-015-0213-5
142	Prakasha D.G., Turgut Vanli A., Bagewadi C.S., Patil D.A., <i>Erratum to the paper "Some classes of Kenmotsu manifolds with respect to semi-symmetric metric connection"</i> , (2015) <i>Gazi University Journal of Science</i> , 28 (2), pp. 209 – 210
143	Prakasha D.G., Vikas K., <i>On weak symmetries of kenmotsu manifolds with respect to quarter-symmetric metric connection</i> , (2015) <i>Annales Mathematicae et Informaticae</i> , 45, pp. 79 – 90
144	Prakasha D.G., Nagaraja H.G., Somashekhara G., <i>ON $(N(k), \xi)$-semi-Riemannian 3-manifolds</i> , (2014) <i>Italian Journal of Pure and Applied Mathematics</i> , 32, pp. 115 – 124
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146	Prakasha D.G., Hui S.K., Mirji K., <i>On 3-dimensional contact metric generalized (k, μ)-space forms</i> , (2014) <i>International Journal of Mathematics and Mathematical Sciences</i> , 2014, art. no. 797162. DOI: 10.1155/2014/797162
147	Prakasha D.G., Hui S.K., Vikas K., <i>On weakly ϕ-Ricci symmetric Kenmotsu manifolds</i> , (2014) <i>International Journal of Pure and Applied Mathematics</i> , 95 (4), pp. 515 – 521. DOI: 10.12732/ijpam.v95i4.3

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149	Prakasha D.G., Chavan V., <i>On φ-pseudo symmetries of generalized Sasakian-space-forms</i> , (2015) International Journal of Pure and Applied Mathematics, 104 (3), pp. 313 – 323, DOI: 10.12732/ijpam.v104i3.3
150	Bagewadi C.S., Prakasha D.G., Venkatesha, <i>On pseudo projective curvature tensor of a contact metric manifold</i> , (2007) SUT Journal of Mathematics, 43 (1), pp. 115 – 126
151	Prakasha D.G., <i>On generalized Sasakian-space-forms with Weyl-conformal curvature tensor</i> , (2012) Lobachevskii Journal of Mathematics, 33 (3), pp. 223 – 228. DOI:10.1134/S1995080212030110

Research Guidance Details: (Ph.D. – 19, Post Doc. – 01)

Sl. No	Name of the Scholar	University/Agency	Status	Area of Research
Ph.D. - 17 (Awarded -11 & Working - 08)				
1.	Vikas K.	Karnatak University	Awarded - 2016	Differential Geometry
2.	Kakasab Mirji		Awarded - 2017	Differential Geometry
3.	Balachandra S. Hadimani		Awarded - 2017	Differential Geometry
4.	Vasant Chavan		Awarded - 2017	Differential Geometry
5.	Nagaraja M.		Awarded - 2018	Differential Geometry
6.	Shivamurthy T. R.		Awarded - 2019	Differential Geometry
7.	Veeresha P.		Awarded - 2020	Differential Geometry
8.	Harish H.		Awarded - 2021	Differential Geometry
9.	Naveen S. Malagi	Davangere University	Awarded - 2022	Fractional Calculus
10.	Amruthalakshmi M.R.		Awarded - 2023	Differential Geometry
11.	Manjunath Gali		Awarded - 2024	Graph Theory
12.	Lal Singh Naik		Awarded - 2026	Fluid Mechanics
13.	Chethan H. B.		Awarded - 2026	Fractional Calculus
14.	Archana D. K.		Awarded - 2026	Fractional Calculus
15.	Darshan Kumar C.V.		Awarded - 2026	Fractional Calculus
16.	Naveen K.		Awarded - 2026	Fractional Calculus
17.	Deepika M.V.		Awarded - 2026	Differential Geometry
18.	Manjula T.		Working	Differential Geometry
19.	Abhilash K.		Working	Fluid Mechanics
20.	Ranjitha K. B.		Working	Fractional Calculus
21.	Sumana B. N.		Working	Cosmology
22.	Nikith		Working	Differential Equations
Post Doctoral : 01				
23.	Dr. Ganesh Kumar K.	Dr. D.S. Kothari Post Doctoral Fellow (UGC, New Delhi)	Completed (01 st July, 2020 to 30 th June, 2022)	Computational Fluid Dynamics

Conferences/Seminars/Workshops	
Invited Talks	25
Paper Presentation	20
Attended	40

Scientific visits abroad	
1.	Visited Varna, Bulgaria during 01st September-2015 to 06th September-2015 to present a research paper and also served as a Chairman for one Invited Talks Session at 12th International Conference on Geometry and Applications.
2.	Visited Akdeniz University, Antalya, Turkey from 07th September-2015 to 09th September-2015 as a Visiting Fellow.
3.	Visited Gazi University, Ankara, Turkey from 10th September-2015 to 13th September-2015 as a Visiting Fellow
4.	Visited Yeungnam University, Gyeongsan, South Korea from 06th June- 2025 to 12th June, 2025 as a Visiting Fellow
5.	Visited and delivered Invited Talk at Department of Mathematics & RIRCM, Kyungpook National University, Kyungpook, South Korea during 13th June, 2025.

Academic Responsibilities:	
1.	Life Member , Bharata Ganita Parisad, Lucknow, INDIA.
2.	Life Member , Culcutta Mathematical Society, Kolkata, INDIA.
3.	Life Member , Tensor Society of India, Lucknow, INDIA.
4.	Life Member , Indian Society of Industrial & Applied Mathematics, INDIA.
5.	Member , International Egyptian Engineering Mathematical Society,
6.	Member , World Academy of Science, Engineering and Technology.
7.	Member , International Association of Engineers.
8.	Member , Karnataka Association for the Advancement of Science, Bengaluru (KAAS)

Professional Recognition/Achievements/Awards:	
1	(i) Reviewer for American Mathematical Society's Mathematical Reviews (AMS-MR). (ii) Reviewer for more than 100 research manuscripts by various journals of high repute & indexed in SCIE, Scopus & Web of Science. (iii) Adjudicator/Examiner for more than 15 Ph.D. theses from various Universities in India. (Kuvempu University, Gulbarga University, Shivaji University, Solhapur University, CSVTU, SRM Institute of Science & Technology, Vellore Institute of Technology, Kalyani University and others)
2	Listed among the Top 2% Scientists in the World prepared by Stanford University, USA and Elsevier BV, the Netherlands, based on the single-year impact of 2024 in Mathematics Category.
3	Listed among the Top 2% Scientists in the World prepared by Stanford University, USA and Elsevier BV, the Netherlands, based on the single-year impact of 2023 in Mathematics Category.
4	Listed among the Top 2% Scientists in the World prepared by Stanford University, USA and Elsevier BV, the Netherlands, based on the single-year impact of 2022 in Mathematics Category.
5	Listed among the Top 2% Scientists in the World prepared by Stanford University, USA and Elsevier BV, the Netherlands, based on the single-year impact of 2021 in Mathematics Category.
6	Three Articles were recognized as Highly Cited Research Articles for 2021 by WILEY Publications.

7	Listed among the Top 2% Scientists in the World prepared by Stanford University, USA and Elsevier BV, the Netherlands, based on the single-year impact of 2020 in Mathematics Category.
8	Award for Research Publications (ARP) with a Cash prize of Rs. 25,000/- from VGST, Department of Science & technology, Govt. of Karnataka in the year 2019.
9	Best Research Publication in Science 2017 Award by Karnatak University, Dharwad for the research paper entitled " <i>η-Ricci Solitons on para-Sasakian Manifolds</i> " published in Journal of Geometry (2017).
10	Best Paper Award by Tensor Society of India for the research paper entitled " <i>Characterizations of Generalized (κ, μ)-paracontact Manifolds</i> " during National Conference on Differential Geometry and its Applications held at D.D.U. Gorakhpur University, Gorakhpur, during 27-28 January, 2017.
11	Best Research Publication in Science 2016 Award by Karnatak University, Dharwad for the research paper entitled " <i>E-Bochner Curvature Tensor of generalized Sasakian-Space-Forms</i> " published in C. R. Acad. Sci. Paris, Sr. I (Elsevier) (2016).
12	Best Research Publication in Science 2015 Award by Karnatak University, Dharwad for the research paper entitled " <i>On the C-Bochner Curvature Tensor of generalized Sasakian-Space-Forms</i> " published in Proc. Natl. Acad. Sci. India. A (Springer) (2015).
13	Junior Research Fellow , awarded by Kuvempu University, Shankaraghatta, Shimoga, India to pursue Ph.D., in Mathematics from the year June-2005 to December-2008.

Administrative Responsibilities:

1.	Coordinator/Codifier for P.G. Science Central Valuation for the P. G. Examinations of June/July - 2011 at Karnatak University, Dharwad.
2.	Course Coordinator for the NET/SLET coaching classes in Mathematics during February - 2012 to March - 2012 at Karnatak University, Dharwad.
3.	Post Graduate Programme (PGP) Coordinator for conducting P.G. Mathematics Examinations of December - 2012 at Karnatak University, Dharwad.
4.	Member for Board of Studies (BOS) in PG Mathematics during the Academic years 2011 - 2012 & 2012-2013 at Karnatak University, Dharwad.
5.	Coordinator, Three Days Faculty Development Programme for Mathematics Faculty of Undergraduate Colleges during on 18 - 20 March, 2012 organized by Department of Mathematics, Karnatak University, Dharwad
6.	Member for Board of Appointment (BOAE) of Examiners for the April/May-2013 PG Mathematics Examinations at Karnatak University, Dharwad.
7.	Chairman for Board of Examiners (BOE) in Mathematics for 7 times during the Academic years 2011-12 to 2014-15 at Karnatak University, Dharwad.
8.	Member for Board of Studies (BOS) in UG & PG Mathematics during the academic year 2015-16 & 2016-17 at Davangere University, Davangere.
9.	Organizing Secretary for the National Conference on Geometry, Topology and their Applications (NCGTA-2016) held during 3-4 August, 2016 at Karnatak University, Dharwad (Sponsored by NBHM, DAE, Mumbai).
10.	Post Graduate Programme (PGP) Coordinator for conducting P.G. Mathematics Examinations of December - 2018 at Karnatak University, Dharwad.
11.	Chairman for Board of Examiners (BOE) in Mathematics for the Academic years 2020-2021 & 2024-2025 at Davangere University, Davangere.
12.	Faculty Advisor/Warden, Brahmaputra Boys Hostel, Davangere University, Davangere from March, 2021 to June, 2024.
13.	Nodal Officer, CSIR Fellowships at Davangere University, Davangere from September 2021 to till date.
14.	Chairman, Department of Studies in Mathematics, Davangere University from 15 th June, 2021 to 14 th June, 2023.
15.	Chairman, PG & UG Borad of Studies in Mathematics, Davangere University from 01 st January, 2022 to 31 st November, 2025.
16.	Coordinator, Academic Writing Center, Davangere University from June, 2023 to till date.
17.	Director, PME Board, Davangere University from August 2022 to till date.
18.	Member, Academic Council, Davangere University from August, 2022 to till date.