



**Name** : **Dr. Satishkumar Mangilal Bhati**  
**Date of Birth** : 11<sup>th</sup> Jan., 1974  
**Sex** : Male  
**Marital Status** : Married  
**Nationality** : Indian  
**Category** : Open  
**Educational Qualifications** : M. Sc., Ph.D.  
**Residential Address** : Flat No. 1, Paradise Apartment,  
Street No. 1, Serene Meadows ,  
Gangapur Road, Nashik- 422013  
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**Academic Details:**

<b>Degree</b>	<b>Board/University</b>	<b>Year of Passing</b>	<b>Percentage</b>	<b>Class/Grade</b>
S. S. C.	Pune Board	1986	77.14	Distinction
H. S. C.	Pune Board	1991	66.67	First Class
B. Sc. (Mathematics)	Pune University	1994	81.77	Distinction
M. Sc. (Mathematics)	Pune University	1996	72.15	Distinction
B. Ed.	Pune University	1997	72.27	Distinction
Ph.D. (Mathematics)	Pune University	2008	-----	-----

**Teaching Experience:**

<b>Name and address of Employer</b>	<b>Designation</b>	<b>From (date)</b>	<b>To (date)</b>	<b>Total Experience</b>
Pravara Rural Engineering College, Loni, Tal- Rahata, Dist- Ahmednagar	Lecturer in Mathematics	15-07-1997	08-10-2001	Four Years
Sanjivani Rural Education Society's College of Engineering, Kopargaon (M. S.)	Lecturer in Mathematics	09-10-2001	31-07-2007	Five Years
Sanjivani Rural Education Society's College of Engineering, Kopargaon (M. S.)	Assistant Professor of Mathematics	01-08-2007	17-10-2008	One Year
Sandip Institute of Technology and Research Centre, Mahiravani, Nashik	Assistant Professor of Mathematics	18-10-2008	31-12-2010	Two Years
Sandip Institute of Technology and Research Centre, Mahiravani, Nashik	Associate Professor of Mathematics	1-1-2011	05-12-2013	Three Years
MET's IOE, Nashik	Associate Professor of Mathematics	6-12-2013	09-06-2014	Six Months
Sandip Institute of Technology and Research Centre, Mahiravani, Nashik	Professor of Mathematics	10-06-2014	29-09-2019	Five Years
Maratha Vidya Prasarak Samaj's Karmaveer Baburao Ganpatrao Thakare College of Engineering, Nashik	Assistant Professor of Mathematics	30-09-2019	30-11-2021	2 Years

Maratha Vidya Prasarak Samaj's Karmaveer Baburao Ganpatrao Thakare College of Engineering, Nashik	Associate Professor of Mathematics	01-12-2021	Till the date	3 Months
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**Total Research Papers Published in Journals : 20 (details given below)**

- [1] A Theorem on isometry of Sasakian manifold to sphere, Bull. Cal. Math. Soc., 98(5)(2006)429-442.
- [2] Riemannian manifold admitting a conformal transformation group, Bull. Cal. Math. Soc., 99(1)(2007)63-76.
- [3] Conformality and isometry of Riemannian manifolds, Ultra Science, 18M(2)(2006) 195-206.
- [4] On Sasakian manifolds with constant scalar curvature admitting a conformal transformation group, Acta Ciencia Indica, XXXII M(1), (2006) 161-170.
- [5] On Sasakian manifolds admitting a conformal transformation group, Acta Ciencia Indica, XXXII M(1), (2006) 321-327.
- [6] On Riemannian manifolds admitting a nonhomothetic infinitesimal conformal transformation group, Ultra Science, 18(3)(2006)459-470.
- [7] On conformal changes of Riemannian metrics, Acta Ciencia Indica, XXXII M(4), (2006) 1747-1756.
- [8] On nonhomothetic conformal changes of Riemannian metrics, Ultra Science, 18(3)(2006) 509-518.
- [9] Integral formulas in Riemannian manifolds and their applications , Bull. Cal. Math. Soc., 99(6)(2007)613-634.
- [10] Characterizations of Conformally Flat Spaces-I, Rev. Bull. Cal. Math. Soc., 18(2) (2010) 185-198
- [11] Some curvature properties of Sasakian manifolds, IOSRJEN, 2(8) (2012) 66-69
- [12] On Weakly Ricci  $\varphi$  - symmetric  $\Delta$  - Lorentzian trans-Sasakian manifolds, Bulletin of Mathematical Analysis and Applications, 5(1)(2013) 36-43.
- [13] Three dimensional Lorentzian Para  $\alpha$ - Sasakian manifolds, Bulletin of Mathematical Analysis and Applications, 6(3)(2014) 79-87.
- [14] Properties of  $\Delta$  - Lorentzian  $\beta$ - Kenmotsu manifolds, Journal of Pure Mathematics, 31 (2014) 47-59.
- [15] Heat Transfer Analysis On MHD Rotating Jeffery Fluid Flow Past A Vertical Plate Filled In Porous Medium, Journal for Advanced Research in Applied Sciences, 15(5)(2018), 37-50

[16] Maxwell's Field Equations and Projective Curvature Tensor, International Journal of Engineering Technology Science and Research,5(4)(2018),1185-1188

[17] Casson fluid performance on natural convective dissipative couette flow past an infinite vertically inclined plate filled in porous medium with heat transfer, mhd and hall current effects, International Journal of Pharmaceutical Research,10(4)(2018),809-819

[18] Combined influence of thermal diffusion and diffusion thermo on radiating and rotating laminar flow in presence of magnetic field and Jeffrey fluid through finite element solutions, International Journal of Mathematics and Statistics, 58(3)(2019), 107-132

[19] Continuity equations in Fluid Dynamics and Bianchi identities, Strad Research, 8(5)(2021), 587-591

[20] Law of Electric Field via Bianchi identities, Journal of Applied Science and Engineering, 25(4)(2022), 659-662

#### **Text Books Published:**

[1] Engineering Mathematics- III (for SE Electrical, Instrumentation and control Engineering, SSPU), Gigatech Publishing House, 2018

[2] Engineering Mathematics- III (for SE Civil Engineering, SSPU), Gigatech Publishing House, 2018

[2] Engineering Mathematics- III (for SE Computer Engineering and Information Technology, SSPU), Gigatech Publishing House, 2019

#### **Reference Books Published:**

[1] Integral Calculus, Gigatech Publishing House, 2019

#### **Research Project:**

Worked as co-investigator under the research project entitled “ Some Steps to Remove Research Illiteracy in Differential Geometry” This project was sponsored by Pune University. The amount sanctioned was Rs 200000=00. The Principal investigator of the project was Dr. S. S. Pujar. Under this project, we have conducted two four days workshops at SRES college of Engineering, Kopergaon and Pravara Rural Engineering College , Loni.

#### **Member of Board of Studies:**

Elected as a member of Board of Studies of Engineering Sciences of **Pune University** for the period 2010 to 2015

**Member of Engineering Faculty:**

Elected as a member of Faculty of Engineering of **Pune University** for the period 2010 to 2015

**Chairman of Board of Studies:**

Nominated as a Chairman of Board of Studies in Mathematics of Sandip University from 2015.

**Member of Academic Council:**

Nominated as a member of Academic Council of Sandip University from 2015.

**Member of Board of Studies:**

Nominated as a member of Board of Studies in Engineering Sciences of Sandip University from 2015.

**Patent Published:**

- (1) Regression System: Regression Analysis Approach for Mathematical Model Development in Dynamic System, Application No: 202141030806, Date of filing: 09/07/2021, Publication Date: 16/07/2021
- (2) Penalized Regression Method: Improved Performance of Penalized Regression Method and the Classical Least, Application No: 202241006897, Date of filing: 09/02/2022, Publication Date: 25/02/2022.

**Research Paper presented in conferences:**

- (1) Presented a research paper entitled “Isometry to spheres of Riemannian manifolds admitting a conformal transformation group IV” during 91<sup>st</sup> session of Indian Science Congress Association held at Punjab University, Chandigarh from 03-01-2004 to 07-01-2004.
- (2) Presented a research paper entitled “Characteristics of conformally flat spaces” during 95<sup>th</sup> session of Indian Science Congress Association held at Andhra University, Visakhapatnam from 03-01-2008 to 07-01-2008.
- (3) Presented a research paper entitled “On Semisymmetric Metric Connections” in International Conference on Emerging Trends in Engineering held at Pravara Rural Engineering College, Loni, Tal- Rahata, Dist- Ahmednagar during 20-12-2008 to 22-12-2008.
- (4) Presented a research paper entitled “Integral Form of Gravitational Field Equations” in International Conference on Computational Intelligence Applications 2010 at Sandip Institute of Technology and Research Centre, Nashik during 03-03-2010 to 05-03-2010.

- (5) Presented a research paper entitled “Some curvature properties of Sasakian Manifolds” in National Symposium on Engineering and Research held at Matoshri College of Engineering and Research Centre, Nashik on 14-04-2012
- (6) Presented a research paper entitled “Maxwell’s Field Equations and Projective Curvature Tensor” in Fourth International Conference on Computational Intelligence Applications at Sandip Institute of Technology and Research Centre, Nashik during 25-02-2015 to 27-02-2015.
- (6) Presented a research paper entitled “On Yambe Soliton and Scalar Curvature” in the International Conference on Emerging Trends in Management, Engineering, Law, Technology and Science (ICEMELT 18) organized by Sandip University, Nashik 03-12-2018 to 05-12-2018.
- (7) Presented a research paper entitled “Applications of Fermat’s Little Theorem” in the International Conference on Emerging Trends in Management, Engineering, Law, Technology and Science (ICEMELT 18) organized by Sandip University, Nashik 03-12-2018 to 05-12-2018.

#### **Workshop Conducted:**

- (1) Conducted four days workshop under the research project sponsored by Pune University at SRES College of Engineering, Kopergaon during 25-28 July, 2008.
- (2) Conducted four days workshop under the research project sponsored by Pune University at PREC, Loni during 11-14 December, 2008.
- (3) Conducted one week workshop on Application of Engineering Mathematics at Sandip Institute of Technology and Research Centre, Nashik from 20-04-2014 to 24-04-2015.

#### **Coursera Course Completed:**

- (1) Combinatorics and Probability by University of California San-Diego and National Research University, Higher School of Economics  
(Verify at: [coursera.org/verify/RTH57YBRC8ZF](https://coursera.org/verify/RTH57YBRC8ZF))
- (2) Vector Calculus for Engineers by the Hong Kong University of Science and Technology  
(Verify at: [coursera.org/verify/K9MBZHCB58QD](https://coursera.org/verify/K9MBZHCB58QD))
- (3) Introduction to Calculus by the University of Sydney  
(Verify at: [coursera.org/verify/XX4YU3QAK4FZ](https://coursera.org/verify/XX4YU3QAK4FZ))
- (4) Introduction to Ordinary Differential Equations by the Korea Institute of Science and Technology (KAIST)  
(Verify at: [coursera.org/verify/BL8A9SEGHCB5](https://coursera.org/verify/BL8A9SEGHCB5))
- (5) Differential Equations for Engineers by the Hong Kong University of Science and Technology

(Verify at: [coursera.org/verify/FVV89PAYFUQ7](https://coursera.org/verify/FVV89PAYFUQ7))

**ResearchGate Profile Page Link:**

<https://www.researchgate.net/profile/S-M-Bhati>

**ResearchGate Profile Page QR Code:**



**The above all information is true**

**Date: 07/03/2022**

**..... Dr. S. M. Bhati.**