

## Dr. SANTHOSHKUMAR M.V

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

Associate Professor  
Dept. of Physics,  
Bapuji Institute Engineering and Technology,  
DAVANGERE-577004



**Telephone:** +919964762794

**Email:** [santhukphysics@gmail.com](mailto:santhukphysics@gmail.com)

**Research Gate link:** <https://www.researchgate.net/profile/Santhosh-M-V>

**Google Scholar link:** [https://scholar.google.com/citations?user=XKmb\\_oYAAAAJ&hl=en](https://scholar.google.com/citations?user=XKmb_oYAAAAJ&hl=en)

### **Work Experience: 14.5 Years**

<i>Designation</i>	<i>Year</i>	<i>Experience</i>	<i>Organization/Institution</i>
Lecturer	2008-2011	3.5Years	<i>Bapuji Institute of Engg. and Technology Davanagere</i>
Assistant Professor	2011-2022	11 Years	Jain Institute of Technology, Davanagere-03
Associate Professor	Feb-2022 – July-2022	05 Months	Jain Institute of Technology, Davanagere-03
Associate Professor	Aug -2022- till date		<i>Bapuji Institute of Engg. and Technology Davanagere</i>

### **Life time membership Faculty ID**

1. *Indian Society for Technical Education (MISTE):LM-126303-life*  
Time member
2. *AICTE Faculty ID:1-765148782*

## **Academic Qualifications:**

<b>Gradation</b>	<b>University/ Institute</b>	<b>Year of passing</b>	<b>Subject/ Topic</b>
<b>Ph.D.</b>	Visvesvaraya Technological University, Belagavi.	March- 2019	Physics
<b>M. Phil.</b>	Vinayaka Missions University Salem, Tamilnadu	Jan 2009	Physics
<b>M.Sc.</b>	Jnana Sahyadri Shankaraghatt (Kuvempu University Shivamogga)	May 2007	Physics, Condensed Matter Physics
<b>B.Sc.</b>	Sahyadri Science College, Shivamogga. (Kuvempu University Shivamogga)	Apr 2005	PCM

### ***Title of Ph.D. Thesis***

*Studies on Structural, Electrical and Magnetic properties of rare earth element substituted nano Ni-Zn ferrites.*

### ***Title of M. Phil. Thesis***

*Studies on Preparation, Characterization and Dielectric properties of Nickel-Magnesium ferrites” Under the guidance of Dr. E. Malagiriappa, S.J.M.I.T Chitradurga.*

### ***Title of M.Sc. Project***

*Preparation and study of DC Conductivity of Nano sized (ZnO and CuO) metal oxides under the guidance of Prof. H.S. Jayanna, Kuvempu University.*

### ***Field of Interest:***

1. ***Magnetic Nano structures (Nano-ferrites).***
2. ***Functional materials.***
3. ***Nano-composite Materials.***

### ***Other Achievements:***

1. Participated in Higher primary students '**State level Science Talent Examination**' and secured the third rank at school level.
2. '**A.B.H. All India General knowledge test-1997**', Participated & secured 68%.
3. '**First Aid Nature Cure Training course**' completed with 60%.
4. '**Joint Entrance Screening Test 2008**' result (RollNo.040220) Percentile:-81.74, All India ranking:-802.
5. '**Certificate of Appreciation**' from lions club for social service & organizing the blood donation camp -**10.06.2022**.

### ***Other experience/Responsibilities***

1. HOD of Physics Dept. from 17.08.2011 to till date. @ Jain Institute of Technology Davanagere.
2. Youth Red Cross Wing Program officer from 17.03.2013 to till date @Jain Institute of Technology Davanagere.
3. First Year Coordinator from 25.12.2013 to 20.11.2014. @ Jain Institute of Technology Davanagere.
4. Co-Editor JIT News Letter (2012&2013) @Jain Institute of Technology Davanagere.
5. Worked as a Deputy Chief Superintendent external in connection with VTU UG/PG July2015 examination at UBDTCE Davanagere from 22.06.2015 to 03.07.2015.
6. Worked as a Deputy Chief Superintendent external in connection with VTU UG/PG July2016 examination a BIET, Davanagere. From 27.06.2015 to 08.07.2015.
7. IGNOU. Student Counselor for the Subject-Foundation course for Science & Technology (1<sup>st</sup>BCA).

## Publication of Books

1. *Synthesis and Structural analysis of Gd-Ni-Zn Nano-ferrites: Auto combustion method.*

**Author:** Santhosh Kumar M.V,  
**ISBN:**978-620-3-02831-7  
**Published:**November2020

**Editor:** Vlaplanche\_lap  
**Binding:** Paperback  
**Publisher:** Lap Lambert  
Academic Publishing

## Publications in peer Reviewed Journals

1. **Santhosh Kumar M V, A. Alhadhrami, Shankaramurthy G J, M G Thriveni and B.M. Prasanna**, “Influence of divalent metal ion ( $Zn^{2+}$ ) on Magnetic properties, Curie temperature and DC Electrical properties in  $Ce^{3+}$  Substituted Ni-Zn Ferrites” *J. Physica Scripta*, Phys. Scr. 97 (2022) 015807, <https://doi.org/10.1088/1402-4896/ac4771> .(IOP Science)
2. **Santhosh Kumar M V, Shankaramurthy G. J., Melagiriappa E, Ashok Rao & K. K. Nagaraja** “Cation distribution and magnetic properties of  $Gd^{+3}$  substituted Ni-Zn nano ferrites” *Journal of Superconductivity and Novel Magnetism*, vol. 33, pp 2821–2827 2020, <https://doi.org/10.1007/s10948-020-05502-5>.(Springer)
3. **M.V. SanthoshKumar, G.J. Shankarmurthy, E. Melagiriappa, K.K. Nagaraja, H. S. Jayanna, and M.P. Telenkov**, “Structural and complex impedance properties of  $Zn^{2+}$  substituted nickel ferrite prepared via low-temperature citrate gel auto-combustion method,” *J. Mater. Sci. Mater. Electron.*,vol.29,no.15,pp.12795–12803, 2018.(Springer)
4. **M V SanthoshKumar, G.J. Shankarmurthy, E. Melagiriappa, K.K. Nagaraja, A.R. Lamani, and B.M. Harish**, “Dielectric and magnetic properties of high porous  $Gd^{+3}$  substituted nickel zinc ferrite nanoparticles,” *Mater. Res. Express*, vol.5,no.4,pp.46109, 2018.(IOP Science)
5. **M.V.SanthoshKumar, G.J. Shankarmurthy, E. Melagiriappa, K.K.Nagaraja, H. S. Jayanna, and M. P. Telenkov**, “Induced effects of  $Zn^{2+}$  on the transport and complex impedance properties of Gadolinium substituted nickel-zinc nano ferrites,” *J. Magn. Magn. Mater*, vol. 478, pp 12–19, 2019.(Elsevier)
6. **N.Chandamma, SanthoshKumar M. V., G. J. Shankarmurthy, E. Melagiriappa, and K. K. Nagaraja**, “Effect of gamma irradiation on some electrical and dielectric properties of  $Ce^{3+}$  substituted Ni–Zn nano ferrites,” *Chinese J.Phys.*,vol.55,no.4,pp.1729–1738,2017. (Elsevier)

7. N. Chandamma, B.M. Manohara, B. S.Ujjinappa, G. J. Shankarmurthy, and **M. V. Santhosh Kumar**, “Structural and electrical properties of Zinc doped Nickel ferrites nanoparticles prepared via facile combustion technique,” *J. Alloys Compd.*, vol. 702, pp.479–488, 2017. (**Elsevier**)
8. **Santhosh Kumar M. V.**, Hassan A. H. Alzahrani, Shankaramurthy G. J., Nagaraja K. K., Abdulmohsen O Alsaieri, Prasanna B.M. and Chandamma N. “Effects of  $\gamma$ -irradiation on high-frequency AC electrical and impedance properties of Ni-Zn nano ferrites” *Physica Scripta. Phys. Scr.* 97 pp 1-15 (2022) 095702 (**IOP**)
9. Nataraja G, Praveen B M, **Santhosh Kumar M V**, Pruthviraj R D, “Corrosion Inhibition Property of Amoxicillin Drug for Al-2014 Alloy in 1M HCl Solution” *Bio & Tribo corrosion (preprint under review )* (**Springer**)

### **Conference Publications**

1. Structural characterization and Rietveld refinement of rare earth Substituted Nano Nickel ferrite synthesized by low-temperature citrate Precursor method, **Santhosh Kumar M V**, G J Shankarmurthy, E Melagiriappa, Nagaraj K K, Jagadeesh M R, “*National Conference on Emerging Trends in Engineering, Research and Management*” (NCETERM - 2017), 8<sup>th</sup> and 9<sup>th</sup>September 2017, held at *GM Institute of Technology, Davangere, Karnataka.*(**Best paper award**)
2. Growth and characterization of doped adp crystals for optoelectronic applications. M. R. Hareeshkumar, G. J. Shankaramurthy, Jagadeesh M R, **Santhosh Kumar M. V.**“*National Conference on Emerging Trends in Engineering, Research and Management*” (NCETERM - 2017), 8<sup>th</sup> and 9<sup>th</sup>September 2017, held at *GM Institute of Technology, Davangere, Karnataka.*
3. Structural analysis and Dielectric Properties of Cerium Substituted nano ( $\text{Ni}_{0.6}\text{Zn}_{0.4}\text{Fe}_2\text{O}_4$ ), **Santhosh Kumar M. V.**, G.J. Shankarmurthy, E. Melagiriappa, “*International Conference on recent trends in Engineering Technology and science*” (ICRETS-2016), on 1<sup>2th</sup>& 1<sup>3th</sup> August-2016, held at *STJIT, Ranebennur, Karnataka, India.*
4. Structural refinement and special occupancy of ions in Gadolinium substituted Nickel & Zinc nano ferrites, **Santhosh Kumar M V**, G. J Shankarmurthy, E Melagiriappa, Manjunatha R S, “*One-day National conference on recent trends on the applications of Science in engineering*”(NCRSE-2018)on September 2018 held at *BIET Davangere, Karnataka.*

## ***Best paper presentation award***

1. ***‘Structural characterization and Rietveld refinement of rare earth Substituted Nano Nickel ferrite’*** “National Conference on Emerging Trends in Engineering, Research and Management” (NCETERM - 2017), 8<sup>th</sup> and 9<sup>th</sup> September 2017, held at GM Institute of Technology, Davangere, Karnataka.

## ***National Symposia/ Seminars/ QIP Attended Workshops/STTP***

1. Internal session chair in the International conference on **“Engineering Innovation ICEI-2022”** at Jain Institute of Technology, Davanagere on 3<sup>rd</sup> June 2022.
2. Four-day international conference on **“Recent Trends in Mathematical Sciences and Applications”** organized by Gayatri Vidya Parishad college of Engineering (Autonomous), Visakhapatnam during 21<sup>st</sup> – 24<sup>th</sup> December, 2021.
3. One-Week AICTE – VTU Joint Teachers Training Programme on **“An Overview of Teaching Techniques in Scientific Foundations of Health”** between 20<sup>th</sup> & 24<sup>th</sup> December 2021 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) -562101.
4. Two-day’s workshop on **“Implementation of NEP-2020”** organized by BIET, Davanagere in association with VTU Belagavi on 10<sup>th</sup> and 11<sup>th</sup> Dec. 2021.
5. One-day Webinar on **“Nanophosphors and their Luminescence Studies”** held on 19<sup>th</sup> Nov 2020 organized by the Department of Physics, in association with Institution’s Innovation Council of Channabasaveshwara Institute of Technology, Gubbi.
6. One Day Webinar On **“Transforming The Future of Education, The Role of Teachers, Students And Parents,”** On 5<sup>th</sup> Sep 2020 Organized By Lead India Foundation.
7. One Day Webinar On **“Demystifying The New Education Policy Impact on the Future of Indian Education System,”** On 8<sup>th</sup> Aug 2020 Organized By Lead India Foundation.
8. One-day webinar on **“GRAPHENE –the Future material”** held on 18<sup>th</sup> May 2020 at Cambridge Institute of Technology, Bengaluru.
9. One-day online workshop on **“Writing a competitive research grant proposal”** on 27<sup>th</sup> April 2020 organized by IEEE Bengaluru section and

SJCIT, Chikkaballapura.

10. One-week online faculty development program on “**NBA and NAAC Accreditation Process**” organized by the Internal Quality Assurance cell (IQAC) MSRIT under AICTE Margadarshan Scheme from 4<sup>th</sup> to 8<sup>th</sup> June 2020.
11. Three-days online faculty development program on “**Physics of Materials**” organized by Department of Physics Jain University Bengaluru from 28<sup>th</sup> to 30<sup>th</sup> may2020
12. One-day workshop for college teachers on “**Frontiers of Physical Sciences**” VGST sponsored workshop on 03<sup>rd</sup> Feb2020 at Davangere University.
13. Three-day workshop on “**Research Methodology and Latex**” conducted by VTU Belagavi held at Raja Rajeswari College of Engineering Bengaluru from 20.12.2016 to 22.12.2016.
14. Three-day Workshop on “**Feel Teacher**” conducted by CLHRD Mangalore from 29.01.2016 to 31.01.2016 held at Jain Institute of Technology, Davangere-05.
15. One-day Workshop on “**Astrophysics and Mangalayana**”, UGC sponsored workshop held at DRM Science College, Davangere, on 02.04.2016.
16. One-day Workshop on “**Shock Waves**” held at UBDTCE, Davangere, on 18<sup>th</sup> August 2014.
17. One-day Workshop on “**Intellectual Property Rights**” conducted by IPC & VTU held at UBDTCE, Davangere, on 16<sup>th</sup> January2014.
18. One-day Workshop on “**Planning of Activities-IYA-2009**” held at Jawaharlal Nehru planetarium Bangalore on 16<sup>th</sup> September 2011.
19. One-day Workshop on “**Micro Electro Mechanical Systems and its applications**” held at Dept. of Mechanical Engineering, Bapuji Institute of Engineering and Technology, Davangere on 8<sup>th</sup> November2008.
20. Short – Term Training program on “**Industrial Pollution Control**” held at Bapuji Institute of Engineering and Technology, Davangere, 16<sup>th</sup> to 20<sup>th</sup> June 2008.
21. One-day National Workshop on “**Mathematical Application in Engineering Systems-2007**” held at Bapuji Institute of Engineering and Technology, Davangere on 27<sup>th</sup> October2007.