



**B.M.S COLLEGE OF ENGINEERING, BENGALURU-19**  
**Autonomous Institute, Affiliated to VTU**  
**Department of Physics**

**AY 2023-24 (1st of July 2023- 31<sup>st</sup> of June 2024)**

**1) Dr. B.L Suresha**

**HOD & Associate Professor, Dept. of Physics**

**July 24th, 2023:** As per the official Memorandum of the principal dated 22.07.2023 (NO.BMS/PPL/EST/2023), Dr. B. L Suresha, Associate Professor, Department of Physics took charge as HOD Department of Physics at 9.40 AM in the HOD chamber 2nd floor BSN Platinum jubilee Building.



**October 18<sup>th</sup> 2023:** Dr. B.L Suresha, Head, Department of Physics, published a research paper entitled "Dielectric and spectroscopic studies of MWCNTs dispersed in 5CB nematic liquid crystal" in the journal of Next materials, Q 2 Journal. with Volume 1, Issue 4, December 2023, 100054, Impact factor 3.748. ISSN: 2949-8228

<https://doi.org/10.1016/j.nxmte.2023.100054>

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## 2).Dr. Murugendrappa M.V

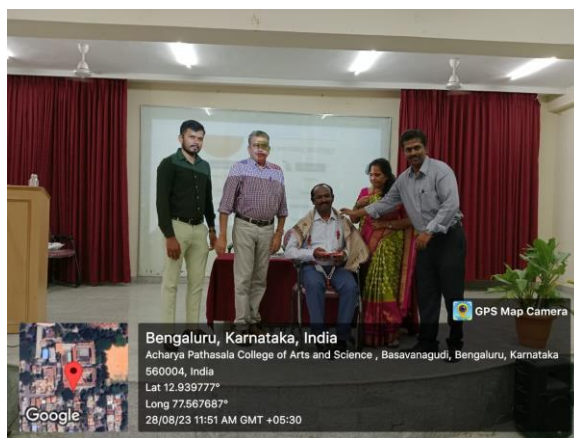
### Associate Professor, Dept. of Physics

**July 24<sup>th</sup>, 2023:** As per the official Memorandum of the principal dated 22.07.2023 (NO.BMS/PPL/EST/2023), Dr. Murugendrappa M V, Associate Professor, Department of Physics, reported as Deputy Controller of Examinations in the COE office, P.G Block, 4th floor, BMSCE.



**July 28<sup>th</sup>, 2023** - Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics invited as an external subject expert to conduct the doctoral committee meeting of research scholar Shilpa T N (1RN17PGA01) at Department of Physics, RNS Institute of technology, Bengaluru.

**August 28<sup>th</sup>, 2023** – Dr. Murugendrappa M V, Associate Professor, Department of Physics delivered an invited talk on the topic “Selection of Research Problem and Benefits of Publications” in One day Seminar in association with IQAC organized by, PG Department of Economics, APS College of Arts and Science, N R Colony, Bengaluru.



**November 16<sup>th</sup> 2023** - Dr. Murugendrappa M V, Associate Professor, Department of Physics, published a research paper entitled “Exploration of structural and morphological characteristics of Ag<sup>2+</sup> substituted Zn-CuFe<sub>2</sub>O<sub>4</sub> nanoparticles by green synthesis” in Nano-Structures & Nano-

Objects [Volume 36](#), October 2023, 101058, Online ISSN: 2352-5088, Print ISSN: 2352-507X  
Impact factor - **0.807**, Q1 journal.

<https://doi.org/10.1016/j.nanoso.2023.101058>

**January 6<sup>th</sup> 2024:** Dr. Murugendrappa M.V, Associate Professor, Department of Physics published a research paper entitled

“Utilization of Aloe vera-infused Sm<sup>3+</sup> doped La<sub>2</sub>MoO<sub>6</sub> nanophosphors: Their role in anti-counterfeiting, white LEDs and transport properties” in *Ceramics International*, Volume 50, Issue 4, January 06th, 2024 and Q1 Journal. Impact factor: 5.532, Print ISSN: 0272-8842, Online ISSN: 1873-3956

DOI: <https://doi.org/10.1016/j.ceramint.2023.12.290>

**January 15<sup>th</sup> 2024:** Dr. Murugendrappa M.V, Associate Professor, Department of Physics published a research paper entitled

“Green color emitting pure cubic zirconia nano phosphor synthesized by solution combustion technique” in *Journal of Nanoparticle Research*, Volume 26, article number 18, (2024) Q2 Journal. Impact factor: 2.533, Print ISSN: 1388-0764, Electronic ISSN: 1572-896X

DOI: <https://doi.org/10.1007/s11051-023-05923-y>

**January 30<sup>th</sup> 2024:** Dr. Murugendrappa M V, Associate Professor, Department of Physics invited as an external subject expert to conduct the doctoral committee meeting of research scholar Shilpa T N (1RN17PGA01) RNS Institute of Technology, Bengaluru.

**February 4<sup>th</sup>, 2024 -** Dr. Murugendrappa M.V, Associate Professor, Department of Physics published a research paper entitled “An impact of RGO on the ZnO nanoparticles: structural, morphological, electrical, and gas sensing properties” in **Sensing Technology**, Volume 2, 2024 - Issue 1, **Article:** 2310479, **Impact factor:** 2.07, **ISSN Print:** 2161-122X, **ISSN Online:** 21611238 <https://doi.org/10.1080/28361466.2024.2310479>

**February 23<sup>rd</sup>, 2024 –** Dr. Murugendrappa M V, Associate Professor, Department of Physics delivered an invited talk on the topic “Synthesis and Characterization of Conducting Polymer Composites for Sensors Applications” in Two-day workshop on “Introduction to Composite Materials and their Applications” from February 23-24, 2024 organized by, Centre of Excellence in Material Science and Devices at RNS Institute of Technology, Bengaluru.

**February 23<sup>rd</sup>, 2024** – Dr. Murugendrappa M V, Associate Professor, published a research paper entitled “Synthesis and characterization of PANI-CZF nanocomposites for enhanced electromagnetic interference shielding” in Journal of Materials Science: Materials in Electronics, Q3 Journal, Volume 35, article number 391, 2024 with Impact factor 2.8 Electronic ISSN 1573-482X and Print ISSN 0957-4522 <https://doi.org/10.1007/s10854-024-12086-6>

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### **3) Dr. Latakumari**

**Asso. Professor, Dept. of Physics**

**July 01<sup>st</sup> 2023** - Dr. Latha Kumari, Associate Professor, Dept. of Physics, published a research paper entitled “Chloramine-T-induced oxidation of Rizatriptan Benzoate: An integral chemical and spectroscopic study of products, mechanisms and kinetics" in Open Chemistry, Q2 Journal, Volume 21, Issue 1, with impact factor 1.216 ISSN 2391-5420 (Online) <https://doi.org/10.1515/chem-2022-0341>

**September 02<sup>nd</sup> 2023:** Dr. Latha Kumari, Associate Professor, Department of Physics presented Project proposal (External grants) at the IIT Delhi.



**January 8<sup>th</sup> 2024** :Dr. Latha Kumari, Associate Professor, Dept. of Physics, published a research paper entitled “A Comparative Study on the Structural and Optical Properties of NiMoO<sub>4</sub> Nanomaterials Synthesized by Hydrothermal and Solvothermal Route" [Crystal Research & Technology](#) Q1 Journal Volume 59 Issue 1, Page no 2300178, with impact factor 1.599 ISSN 02321300, 15214079 (Online)

DOI: <https://doi.org/10.1002/crat.202300178>

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#### **4) Dr. K.E Ganesh**

##### **Asso. Professor, Dept. of Physics**

**February 28<sup>th</sup>, 2024** – Dr. K.E Ganesh, Associate Professor, published a research paper entitled “Assessment of primordial radionuclides and radon exhalation in granitic terrain of Bengaluru, India” in Nuclear Inst. and Methods in Physics Research, B, Q2 Journal, Impact factor 1.4 Electronic ISSN 0168583X <https://doi.org/10.1016/j.nimb.2024.165300>

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#### **5) Dr. Kaliprasad**

##### **Asst. Professor, Dept. of Physics**

**July 24<sup>th</sup> 2023** - Dr. Kaliprasad C.S, Assistant Professor, Dept. of Physics, published a research paper entitled “Efficient removal of metal ions from aqueous solutions using MoS<sub>2</sub> functionalized chitosan Schiff base incorporated with Fe<sub>3</sub>O<sub>4</sub> nanoparticle" in the International Journal of Biological Macromolecules 248 (2023) 125976, Q1 Journal with impact factor 8.025, ISSN 0141-8130 <https://doi.org/10.1016/j.ijbiomac.2023.125976>

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**6) Dr. Karthik Kumara K**

**Asst. Professor, Dept. of Physics**

**July 29th 2023** - Dr. Karthik Kumara, Assistant Professor, Department of Physics, published a research paper entitled “Jahn-Teller distortion in SP-like [Cu(bipy)(triamine)] 2BF<sub>4</sub> complexes with novel N-H ... F/C-H ... F synthon: XRD/HSA- interactions, Physicochemical, electrochemical, DFT, docking and COX/LOX inhibition” in Journal of Molecular Liquids, Impact factor - 6, Q1 journal, Volume 387, 1 October 2023, Pg Nos 122689

<https://doi.org/10.1016/j.molliq.2023.122689>

**September 06th 2023:** Dr. Karthik Kumara, Assistant Professor, Department of Physics published a research paper entitled

“Regioselective benzylation of imidazo[1,5-a]pyridines and indoles via iodine catalyzed reaction using alcohols - An approach to crystal structure prediction, DFT studies and Hirshfeld surface analysis” in Journal of Molecular Structures, Volume 1295, Part 1, Scopus and Q2 Journal. Online ISSN: 1872-8014, Print ISSN: 0022-2860; DOI: <https://doi.org/10.1016/j.molstruc.2023.136591>

**December 15th 2023:** Dr. Karthik Kumara, Assistant Professor, Department of Physics published a research paper entitled

“Microwave-Assisted Synthesis and Characterization of Some Aldehyde Derivatives of Imidazo[2,1-b][1,3,4]thiadiazole: Crystal Structure Insights, In-Silico and Biological Studies” in Journal of ChemistrySelect, Volume8, Issue47,December 15, 2023,e202302877 and Q2 Journal. Online ISSN:2365-6549

Print ISSN:2365-6549.

DOI: <https://doi.org/10.1002/slct.202302877>

**December 20<sup>th</sup> 2023:** Dr. Karthik Kumara, Assistant Professor, Department of Physics published a research paper entitled

“Hydrothermal synthesis of Bi<sub>2</sub>S<sub>3</sub> nanoparticle as a prospective electrode for supercapacitor” in Journal of Next Materials

Volume 2, January 2024, 100081, Q2 Journal. Online ISSN: 2949-8228.

DOI: <https://doi.org/10.1016/j.nxmte.2023.100081>

**7) Dr. Manjunatha S.O**

**Asst. Professor, Dept. of Physics**

**July 25th 2023** - Dr. Manjunatha S.O, Assistant Professor, Department of Physics, published a research paper entitled “Role of holmium on the humidity sensing properties of the  $\text{CoCr}_2\text{O}_4$  ceramics for possible applications in humidity sensors” in J Mater Sci: Mater Electron (2023) 34:1583, Impact factor - **2.8 (2022)**, Electronic ISSN 1573-482X, Print ISSN 0957-4522  
<https://doi.org/10.1007/s10854-023-10995-6>

**January 19<sup>th</sup> 2024:** Dr. Manjunatha S.O, Assistant Professor, Dept. of Physics, published a research paper entitled “Enhanced sensing response of  $\text{Cd}^{2+}$  substitution cobalt chromate ceramics for humidity sensors”, J Mater Sci: Mater Electron (2024) with impact factor **2.8**, **SJR: Q2**, ISSN 1573-482X (print) 0957-4522 (Electronic)  
**DOI:** [10.1007/s10854-023-11772-1](https://doi.org/10.1007/s10854-023-11772-1)

**16th February 2024:** Dr. Manjunatha S.O, Assistant Professor, Dept. of Physics, published a research paper entitled “Study of structural, X-ray photoelectron spectroscopy, Raman and temperature dependent magnetic studies of  $\text{NiFe}_2\text{O}_4/\text{CoCr}_2\text{O}_4$  nanocomposites”, Journal of Solid-State Chemistry (2024) with impact factor 3.3, **SJR: Q1**, ISSN 0022-4596 (print) 1095-726X (Electronic)

**DOI:** [10.1016/j.jssc.2024.124619](https://doi.org/10.1016/j.jssc.2024.124619)

**29th February 2024:** Dr. Manjunatha S.O, Assistant Professor, Dept. of Physics, published a research paper entitled "Structure, microstructure, and enhanced sensing behavior of nickel ferrite–cobalt chromate for humidity sensor applications", J Mater Sci: Mater Electron (2024) with impact factor **2.8**, **SJR: Q2**, ISSN 1573-482X (print) 0957-4522 (Electronic)

**DOI:** [10.1007/s10854-024-12198-z](https://doi.org/10.1007/s10854-024-12198-z)

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**8) Dr. Sharanappa Chapi**

**Asst. Professor, Dept. of Physics**

**September 03<sup>rd</sup> 2023:** Dr. Sharanappa Chapi, Assistant Professor, Department of Physics published a research paper entitled

“Preparation, characterization and swelling studies of bio-waste-derived absorbent hydrogels” in Polymers from Renewable Resources, Scopus and Q2 Journal. ISSN: 2041-2479; Online ISSN: 2045-1377; DOI: <https://doi.org/10.1177/20412479231200323>

**February 13<sup>th</sup>, 2024** – Dr. Sharanappa Chapi, Assistant Professor, published a research paper entitled “Organic conjugated polymers and their nanostructured composites: Synthesis methodologies and electrochemical applications” in Nano-Structures & Nano-Objects, Impact factor -5.914 Volume 37, February 2024, 101102, Q2 Journal, Online ISSN: 2352-5088, Print ISSN: 2352-507X

<https://doi.org/10.1016/j.nanoso.2024.101102>.

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**9) Dr. Maruthi. R**

**Asst. Professor, Dept. of Physics**

**December 26<sup>th</sup> 2023:** Dr. Maruthi R, Assistant Professor, Department of Physics published a research paper entitled “Magnetic structure and field-induced transitions in the triangular spin-1 antiferromagnet  $\text{NiNb}_2\text{O}_6$ : Observation of a triple point” in PHYSICAL REVIEW B, Volume 108, Page no 224430, December 26, 2023, and Q1 Journal.

Online ISSN:2469-9969

Print ISSN:2469-9950

**DOI: [10.1103/PhysRevB.108.224430](https://doi.org/10.1103/PhysRevB.108.224430)**



**10) Dr. Rafiq Mulla**

**Asst. Professor, Dept. of Physics**

**January 19<sup>th</sup> 2024:** Dr. Rafiq Mulla, Assistant Professor, Department of Physics published a research paper entitled

“High performance thermoelectrics from low-cost and abundant CuS/CuI composites” in Journal of Materials Chemistry A (RSC), Volume n/a, Article/page number: d3ta06474c, December 19, 2023, and Q1 Journal. **Impact factor: 11.9** Online ISSN:2050-7496 DOI: <https://doi.org/10.1039/D3TA06474C>

**March 8<sup>th</sup> 2024:** Dr. Rafiq Mulla, Assistant Professor, Department of Physics published a Book Chapter entitled “Chalcogenide semiconductor nanocrystals-optoelectronic applications” in the Book: *Handbook of Emerging Materials for Sustainable Energy* (Publisher: Elsevier), Volume 1, Page number: 779-823, March 8 2024. Impact factor: NA Online eBook ISBN: 9780323996792 Paperback ISBN: 9780323961257 DOI: <https://www.sciencedirect.com/science/article/abs/pii/B978032396125700023X>