



# Dr. Akshay Arjun

## Assistant Professor

### Experience (Teaching and Industry):

- Assistant Professor at RNSIT (2025-till date)
- Senior Research Fellow at M S Ramaiah University of Applied Sciences (2023-2024)
- Junior Research Fellow at M S Ramaiah University of Applied Sciences (2022-2023)
- Subject Matter Expert - Physics at Knowledgeum-Jain Group of Institutions (2019-2021)
- Assistant Professor at St. Joseph's College (Autonomous) (2019)

### Qualifications:

- B.Sc. (Physics, Chemistry, Mathematics) from St. Joseph's College (Autonomous), Bangalore
- M.Sc. Physics from St. Joseph's College (Autonomous), Bangalore
- Doctor of Philosophy (Ph.D.) from M S Ramaiah University of Applied Sciences

### Specialization (Academics):

- Physics - Material Science
- Physics - Electronics
- Solid State Physics
- Heat and Thermodynamics
- Waves and Oscillations

### Specialization (Research):

- Material Science
- Nano composites and Nanostructured Phosphors
- Radiation Dosimetry
- Ion-Induced Modification in Crystals and Minerals
- Dyes and Pigments
- Sensors
- Forensic and Anti-counterfeit Applications of Nanostructured Composites
- Composite Oxide Cooling Pigments
- Dental Materials and Dental Imaging
- Cracked Tooth Syndrome Imaging

### Patents:

Patent titled "*A Broadband Emitting Inorganic Nanophosphor for Full-Spectrum Phosphor-Converted White Light-Emitting Diodes Application*", filed with the Indian Patent Office, application number 202441028436, on 06/04/2024.

### Publications:

Google Scholar: [kdCtRm0AAAAJ](https://scholar.google.com/citations?user=kdCtRm0AAAAJ)

Orcid ID: [0000-0002-5893-8814](https://orcid.org/0000-0002-5893-8814)

Scopus ID: [58394337600](https://scopus.com/authid/detail.uri?authorId=58394337600)

Research Gate: [Akshay-Arjun-2](https://www.researchgate.net/profile/Akshay-Arjun-2)

### Awards Received (Indicative):

- **Journal Cover Feature (2024):** Selected for the October 2024 cover of the Journal of Rare Earths.
- **Popular Science Article (2024):** Published in Vijnana Sangaathi based on research in dental materials.
- **Best Poster Award (2024):** Awarded at ICAMST-2024, Bangalore for work on  $Mg_2GeO_4:Sm^{3+}$  nanophosphors.
- **Best Oral Presentation (2024):** Presented at the Annual Research Scholars Symposium on anti-counterfeiting nanophosphors.
- **Student Achiever Award (2023):** Recognized at RUAS Innovation Day for research excellence.
- **1st Place Poster Presentation (2023):** Won at GTSTAAS-2023 for  $Ca_2MgWO_6:Eu^{3+}$  nanophosphors research.
- **Best Poster Presentation (2022):** Awarded at the International Conference on Applied Research in Engineering Sciences.