
Ms. Aparna L R

Assistant Professor, Department of Physics

T. K. M. College of Arts and Science, Kollam

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Professional Summary

Dedicated academician with over 13 years of teaching experience in Physics, with a special interest in nuclear and high energy physics, as well as interdisciplinary research in nanomaterials and their environmental applications. A certified UGC-NET holder with a strong commitment to student mentorship, curriculum enhancement, and academic development. Currently serving as the Coordinator of the Teaching Learning Centre (TLC) and a core member in multiple academic committees of the institution.

Educational Qualifications

• UGC-NET (Physical Sciences), CSIR/UGC – June 2009

• M.Sc. in Physics, University of Kerala – First Class with Distinction (2005)

• B.Ed. in Physical Sciences, University of Kerala – First Class with Distinction (2006)

Professional Experience

• Assistant Professor, Department of Physics, TKMCAS Since October 4, 2012

Total Teaching Experience: 13 years

Academic Responsibilities & Contributions

- Head of the Department (2020–2024)
- Coordinator, Teaching Learning Centre (2022–Present)
- Member, Strategic Team & DST-FIST Implementation Committee
- Coordinator, Human Rights Forum (2014–15)
- Coordinator, Day Observance Committee (2020–22)
- Member, Program Outcome/Course Outcome Committee (2020–23)
- Mentor, B.Sc. Physics 2018–21 Batch
- SSP Resource Person (2014–17, 2019–20); WWS Mentor (2020–21)
- Faculty Advisor:

- M.Sc. Physics: 2017–19, 2019–21, 2020–22

- B.Sc. Physics: 2011–14, 2014–17

Courses Attended

Orientation & Refresher Courses:

- Orientation Programme Academic Staff College, University of Kerala (2015)
- Refresher in Physics TLC Ramanujan College (2023)
- Refresher on Astronomy & Astrophysics IUCAA Pune (2020)
- Refresher on MOOCs TLC Ramanujan College (2021)

Faculty Development Programmes (FDPs):

- NEP 2020 Orientation UGC MMTTP, AMU (May 2025)
- Re-energising Higher Education KSHEC & TKMCAS (2023)
- Outcome-Based Education SN College Kollam (2021)
- LMS & Moodle Tools KSHEC & Digital University Kerala (2021)
- Multiple FDPs on ICT, Moodle, and Post-pandemic Pedagogies

Short-Term Courses:

- Teaching-Learning Methods TLC Ramanujan College (2022)
- Radiochemistry Applications DAE-BRNS, CUSAT (2024)

Conferences & Workshops (Recent Highlights)

- National Conference on Mathematics and its Applications TKMCAS & SRIBS (2025)
- Workshop on GEANT4 for Applied Nuclear Physics Calicut University (2024)
- Refresher Course in Physics TLC Ramanujan College (2023)
- Awareness Training on Plasma Science & Nuclear Fusion IPR & NCSTC (2018)
- Convenor, International Conference on Energy and Environment 2K19 TKMCAS

Publications

- Synthesis and Optical Bandgap Study of Sm₂Zr₂O₁ Oxides
 S. Srijith, L.R. Asitha, L.R. Aparna, et al.
 AIP Conference Proceedings, Vol. 2393, 020072 (2021)
- Morphological Modification of Cobalt Oxide Nanoparticles Using Zinc and Optical Investigation

L.R. Asitha, S. Srijith, L.R. Aparna, A. Ghosh, et al. AIP Conference Proceedings, Vol. 2393, 020073 (2021)

X-ray Diffraction Line Profile Analysis of Ce Substituted Gd₂Zr₂O₇ System (Gd₂-xCex)Zr₂O₇ (x = 0, 2)

S. Srijith, L.R. Asitha, L.R. Aparna, et al. AIP Conference Proceedings, Vol. 2393, 020070 (2021)

Memberships

• Life Member – Association of Physics Teachers (APT), Kerala