

FACULTY PROFILE

Dr. LEKSHMI D. R.

DESIGNATION : ASSISTANT PROFESSOR OF PHYSICS

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EDUCATIONAL QUALIFICATIONS : M. Sc., Ph. D.

AREA OF INTEREST/SPECIALIZATION : MATERIAL SCIENCE

FIELD OF RESEARCH : Dielectric, Magnetic, Ferroelectric Materials, Multiferroics, Nanomaterial Synthesis etc.

ACADEMIC ACHIEVEMENTS : CSIR/UGC NET (2012), Best Poster Award (ICAFM- 2014)

TEACHING EXPERIENCE :

- (i) Govt. Guest Lecturer, MMNSS College, Kottiyam,
- (ii) Govt. Guest Lecturer, TKM College of Arts and Science, Kollam
- (iii) Assistant Professor (AdHoc), College of Engineering, Perumon
- (iv) Govt. Guest Lecturer, Sree Sankara College, Kilimanoor

POSITIONS HELD :

- (i) Head of the Department (from 2022 onwards)
- (ii) Womens Cell Coordinator (2022-2023)
- (iii) Science Club Coordinator (2022-2023)
- (iv) Arts Club Coordinator (2022-2023)
- (v) IQAC Coordinator (From 2023 onwards)

- (vi) Nature Club Coordinator (2023-2024)
- (vii) PTA Executive Member (2023-2024)

TRAINING PROGRAMMES ATTENDED :

- (i) Online Hands-on Training on Learning Management System (MOODLE) by the Kerala State Higher Education Council during 22nd to 27th September, 2021.
- (ii) One Week FDP for IQAC Coordinators in Colleges affiliated to University of Kerala conducted by UGC-HRDC in collaboration with C-APT from 26.06.2023 to 03.07.2023
- (iii) One Week National Level Online FDP on Outcome Based Education and essential AI Tools for Teachers organized by IQAC of St. Thomas Palai in association with the Kerala State Higher Education Council from 10.01.2024 to 16.01.2024.

PUBLICATIONS :

1. **Deepa Rajendran Lekshmi**, Sivan Pillai Adarsh, Manikanta Bayal, Swapna Shanmukhan Nair, Kuzhichalil Peethambharan Surendran, **Functionally Graded Magnetodielectric Composite Substrates for Massive Miniaturization of Microstrip Antennas**, *Materials Advances*, 3 (2022), 2380-2392.
2. **Deepa Rajendran Lekshmi**, Kuzhichalil Peethambharan Surendran, **Ultra-Low Dielectric Loss BiSmMoO₆ Flexible Tapes for Hybrid Integrated Circuits**, *Journal of the European Ceramic Society*, 39 (2019), 1819-1826.
3. **Deepa Rajendran Lekshmi**, Thomas Letang, Kuzhichalil Peethambharan Surendran, **High permittivity (La_{0.5}Sr_{0.5})CoO_{3-δ} - La(Co_{0.5}Ti_{0.5})O_{3-δ} ceramic composites for next generation MIM capacitors**, *Journal of the European Ceramic Society*, 38 (2018), 3853-3860.
4. Yogita Bist, Richa Tomar, Pullanchiyodan Abhilash, **Deepa Rajendran Lekshmi**, M Thirumal, **Microwave dielectrics: solid solution, ordering and microwave dielectric properties of (1-x)Ba(Mg_{1/3}Nb_{2/3})O_{3-x}Ba(Mg_{1/8}Nb_{3/4})O₃ ceramics**, *Bulletin of Material Science*, 40 (2017), 1165-1170
5. Yogita Bist, Pullanchiyodan Abhilash, **Deepa Rajendran Lekshmi**, M Thirumal, **Microwave dielectric properties of (1-x)Ba(Mg_{1/3}Ta_{2/3})O_{3-x}Ba(Mg_{1/8}Ta_{3/4})O₃ ceramics**, *Ferroelectrics*, 558 (2020), 92-103

SEMINARS/CONFERENCES ATTENDED :

Contributory Talks:

1. *Lekshmi.D. R.* and K.P. Surendran, “Screen Printable Ink of BiFeO₃ Nanoparticles For Electronic Applications”, of International Conference on Nanotechnology: Ideas, Innovations and Initiatives-2017 (ICN3I-2017) held at IIT Roorkee.
2. *Lekshmi.D. R.* and K.P. Surendran, “Screen Printed Layered Multiferroics Based on CoFe₂O₄ and Pr doped SrTiO₃”, of Annual Technical Seminar 2020 (ATM 2020) by Materials Research Society of India held at SCTIMST Trivandrum.

Poster Presentations:

1. *Lekshmi. D. R.*, Induja. I. J., Dr. Subodh G, Dr. M. T. Sebastian, Dr. K. P. Surendran, “Novel Functional Dielectrics for Microwave Applications”, Second International Conference on Advanced Functional Materials (ICAFM 2014), Trivandrum. (Best Poster Award)
2. *Lekshmi. D. R.*, Dr. M. T. Sebastian, Dr. K. P. Surendran, “Radio Frequency and Thermal Characterization of a Novel Functional Dielectric System”, International Conference on Science, Technology and Applications of Rare Earths (STAR 2015), Trivandrum.
3. *Lekshmi.D. R.*, Sneha Joy, Dr. K. P. Surendran, “Magneto-Electric Heterostructures Based on SrTiO₃-SrRuO₃ Thick Films Developed Using Screen-Printing Technique”, Second International Conference on Recent Trends in Materials Science and Technology (ICMST 2018), Thiruvananthapuram.
4. Deepa Rajendran Lekshmi, Sivan Pillai Adarsh, Swapna Nair, Kuzhiciail P. Surendran, “PMMA Based Magnetodielectric Composites for Antenna Miniaturization”, Third International Conference on Advanced Functional Materials (ICAFM 2019), Thiruvananthapuram.