

CURRICULUM VITAE



M.SUREKHA

LECTURER IN PHYSICS

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No.of Research international papers published: 05

1. Synthesis and phase transition characterization by polarized optical microscopy and differential scanning calorimetry in hydrogen bonded chiral liquid crystal series: M*SA:nOBAs, Molecular Crystals and Liquid Crystals, 668:1, 1-28, DOI: 10.1080/15421406.2018.1555350, (2018).
2. Relaxation, de Vries behavior, and layer contraction in chiral liquid crystal by dielectric spectroscopy, Soft Materials, 16:3, 166-185, DOI: <https://doi.org/10.1080/1539445X.2018.1461652>, (2018).
3. Spontaneous polarization, tilt angle, hysteresis and low frequency relaxations in hydrogen bonded chiral liquid crystal dimer: M*SA:9OBA, <https://doi.org/10.1080/00150193.2019.1658045>, (2019).
4. Collective excitations and field induced anti-ferroelectric modes in chiral liquid crystal dimer, AIP Advances **10**, 065235, <https://doi.org/10.1063/5.0003469>, (2020).
5. Exploration of Goldstone mode and field-induced SmA-SmC*-SmC Lifshitz point in chiral liquid crystal dimers for multiple polarization switching, Eur. Phys. J. Plus (2022) 137:656, <https://doi.org/10.1140/epjp/s13360-022-02728-1>

Educational Qualifications:-

Ph.D. in Physics (27-09-2023) at JNTUK, Kakinada, India

Thesis entitled with “DESIGN, SYNTHESIS, CHARACTERISATION AND LOW FREQUENCY RELAXATION INVESTIGATIONS IN SERIES OF HYDROGEN BONDED CHIRAL LIQUID CRYSTAL DIMERS”, under the supervision of Prof. P. Dakshina Murthy.

NET: NET qualified on 25-08-2009 for Lecturer ship in PHYSICAL SCIENCE conducted by joint CSIR- UGC test for JRF and Lecturer ship held on 21-12-2008.

Post Graduation:

M.,Sc., Physics in April 2009 from Andhra University, Visakhapatnam, achieved Distinction with 9.33 CGPA

Graduation:

B.Sc., Mathematics, Physics with Chemistry in 2007 from V.S.Lakshmi college, Kakinada, Andhra University with 88%

Intermediate:

Mathematics, Physics with Chemistry in March 2004, from Gayathri Junior College Kakinada, Board of Intermediate Education, Hyderabad, Andhra University with 88%

SSC: Secondary School Certificate in March 2002 from ZP (Women) High School Gollaprolu, Andhra Pradesh with 82%.

Languages: MS Office

Teaching experience:

1. Worked as a Lecturer in physics at S.V.D Government degree college, Nidadavole from 04-02-2012 to 02-09-2015.
2. Worked as a Lecturer in physics at Government degree college, Pithapuram from 03-09-2015 to 23-09-2021.
3. Worked as a Lecturer in physics at P.R Government college (A), Kakinada from 24-09-2021 to till now.

No.of Orientation courses attended: 01

Orientation course at UGC-ASC, University of Hyderabad from 26-04-2012 to 23-05-2012.

Refresher courses attended: 02

1. Refresher course at UGC-ASC, Sri venkateswara University, Tirupathi from 20-01-2014 to 08-02-2014.
2. Online Two-week Refresher course in Physics at Teaching Learning Centre, Ramanujan College, University of Delhi from 10-04-2022 to 24-04-2022.

No.of Short term courses attended: 02

1. 2 weeks on Research Methodologies from 01-05-2016 to 15-05-2016
2. 2 weeks on Intellectual property rights and patents from 16-05-2016

No.of Faculty development courses attended: 09

1. A Five-day APCCE-US FDP on “New Knowledge in physics and energy materials: Advanced Research Techniques” from 06-07-2020 to 10-07-2020 organised by CCE, A.P, Vijayawada.
2. A Five- day in “LMS video and pedagogy” from 03-08-2020 to 07-08-2020 organised by CCE, A.P, Vijayawada.
3. A Five- day online international FDP on “ Online teaching tools for video lecturing and Digital e-learning from 19-05-2020 to 23-05-2020 organised by S.R C.R Reddy college, Eluru-A.P.
4. National level 5 day FDP on “Tools and Techniques for teacher in post Covid-19 scenario” organized by young researchers forum, Mumbai, Maharastra, India in association with Department of social work, Dr.B.R.Ambedkar University, Srikakulam from 01-06-2020 to 05-06-2020.
5. FDP on NAAC’s (National Assessment and Accreditation Council) Revised Accreditation Framework conducted from 17-06-2022 to 22-06-2022 by IQAC of P.R. Govt. College (A), Kakinada.
6. Five Day Residential Training Programme for Teachers” on Content Delivery and Assessment methods pertaining to Skill Courses for I-Semester TOT on “Electrical Appliances” at AU HRDC, Visakhapatnam organized by Commissionerate of Collegiate Education, A.P., Mangalagiri FROM 07-12-2022 to 11-12-2022.
7. Three Days ToT on Internship/Apprenticeship Management and LMS held at Nodal Resource Centre, PRGC(A), Kakinada from 23 January 2023 to 25 January 2023.
8. 6 Day Training of the Trainers programme on English Medium of Instruction, Proficiency in English from 12-06-2023 to 17-06-2023 at Nodal Resource Centre (NRC), P.R Govt. College (A), Kakinada organized by Commissionerate of Collegiate Education, A.P., Mangalagiri.
9. One Week International Online Faculty Development Programme (FDP) on “Multidisciplinary Approach in Research Methodology” from 11-09-2023 to 17-09-2023 Organised by Departments of Biotechnology, History, Physics, Electronics & Chemistry of Sri Y.N.College (A), Narsapur, W.G.Dt., Andhra Pradesh, India.

No.of Webinars attended: 07

No.of seminars attended: 04

1. One day State Level Seminar on “Recent Trends in Materials Science” organized by the Department of Physics of ideal college of Arts and Science (A), Kakinada on 22-02-2014.
2. U.G.C. Sponsored Two day National seminar in Physics on “Recent Developments in Nano Technology and Nano Science” organized by V.K.V.Government Degree College, Kothapeta on 31-8-2015 and 01-09-2015.
3. Two day National Seminar on “Advanced Materials in Science and Technology” organized by Department of Physics and Electronics of P.R.Government College (A), Kakinada on 23-09-2016 and 24-09-2016.
4. Two-day International Conference on “Environmental Challenges and Remedies for sustainable Future “ (ICECRSF-23) in Hybrid mode (virtual and physical) On 15-09-2023, 16-09-2023 organised by Department of Chemistry, Government College (A), Rajamahendravaram.

Webinars Organized and Participated:

National webinar “Collaboration of Physics with Technology and Environment”, conducted on 12-09-2020 at Government Degree College, Pithapuram.

One day International Conference Organized and Participated:

1. Luminescent Advanced materials & Phosphors in multi disciplinary technologies (LAMP-2022) conducted on 7th January 2022, at P.R. Government College (A), Kakinada.
2. National Seminar on Novel Materials, nanotechnology and Biomedical Applications Conducted on 15-07-2023 by Department of Physics & Chemistry at P.R Govt. College (A), Kakinada in Collaboration with AKNU, Tadepalligudem.

PERSONAL PROFILE:

Name: M.Surekha

Fathers Name: M. Sundara Siva Rao

Date of Birth: 09-05-1987

Sex: Female

Nationality: Indian

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