

Kavitha M V

Assistant Professor
Department of Physics
Sree Narayana College
Nattika
Thrissur.

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Educational Qualifications

M.Sc Physics, B.Ed, SET, NET

Professional Experience

Assistant Professor : Department of Physics, Sree Narayana College for Women, Kollam,
(from 17/10/12 to 01/06/16)

Assistant Professor : Department of Physics, Sree Narayana College, Nattika, Thrissur
(from 03/06/16 onwards)

Research Experience

Part-Time Research Scholar at opto-electronic device simulation Research lab, Christ College,
Irinjalakuda from 05-10-2020 onwards.

Orientation Course Attended

Orientation Programme conducted by UGC- HRDC, Calicut from 03/08/17 to 30/08/17.

Refresher course attended

- Refresher course on "sharpening of soft skills for academic excellence" conducted by the Academic Staff College, Kerala Veterinary and Animal Science University from 03-07-2019 to 16-03-2019
- ARPIT online refresher course on "Curriculum design and e-content development" by SWAYAM completed on 30-06-2019
- Two-week faculty development programme on "Managing online classes and co-creating moocs 3.0" conducted by Teaching, Learning Centre, Ramanujan College,

University of Delhi under the aegis of MHRD, Pandit Madan Mohan Malavya National Mission on Teachers and Teaching from July 25 - August 10, 2020

- Interdisciplinary Refresher Course in Basic Science from 26.11.2024 to 09.12.2024 conducted by MMTTC, Kannur University

Online courses attended

- 8-week online FDP programme on “Fiber optics” by NPTEL from January-March 2019
- Online non-credit course on “solar cells” authorised by Technical University of Denmark and offered through coursera, completed on September13,2020
- Faculty Development Programme on” Best Practises in Research” conducted by the Research and Publication Committee of IQAC of Sree Narayana College, Nattika, on 02/11/2020, 04/11/2020 & 07/11/2020.
- NEP 2020 orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTTC, Kannur University, from 21.04.2025 to 30.04.2025

Programmes organized

- Co-Ordinator of Poster Competition on “Women in Science and Technology” organized by Department of Physics, SreeNarayana College Nattika on 2nd March 2018
- Co-Ordinator of “Industria-2019”, an orientation programme on Energy Conservation organized by Department of Physics, Sree Narayana College Nattika on 24th January 2019.
- Resource person at “Sastrapadham”,a science enrichment residential camp, organized by Samagra Siksha , Kerala in collaboration with Directorate of Collegiate Education and the Department of General education, held at Sree Narayana college, Nattika, from 25-01-2020 to 27-01-2020
- Co-ordinator of “Urjakiran-2021-22” Rally and signature campaign organized by Energy Management Centre Kerala, BEE and CED in collaboration with the Department of Physics, Sree Narayana College, Nattika on 08/12/2021
- Co-ordinator of “Urjakiran-2021-22” Webinar on energy conservation organized by Dept.of Physics, Sree Narayana College, Nattika in collaboration with EMC, Kerala BEE and CED on 21/12/2021
- Co-ordinator of National Science Day celebrations (seminar, video making and poster making competitions) organized by Dept. of Physics, Sree Narayana College, Nattika, and supported by KSCESTE on 21/02/2025

Seminars/ Webinars/workshops attended

- UGC sponsored National seminar on "recent trends in Bio-nano Photonics "at SreeNarayana college for women, Kollam during 19th-20th December 2013
- Seminar held in connection with the 100th birthday celebration of Bohr atom model organised by Post Graduate Department of Physics, SreeNarayana college for Women, Kollam in Collaboration with APT&KSCSTE on 21st January 2015
- National workshop on "Quantum Statistical Mechanics" organized by the Department of Physics S.A.R.B.T.M Govt college, Koyilandy, sponsored by DCE, Govt of Kerala on 11th and 12th December 2017
- Two-Day hands-on workshop on "Molecular Biology Techniques and Bioinformatics organized by Dept of Botany, Sreenarayana college, Nattika on 17th &18th January 2018
- Participated in the Seminar on "Revised Accreditation Process of NAAC" organised by IQAC SreeNarayana College, Nattika on 26-06-20
- Participated in the webinar on "Methodological Approach for Researchers" organized by Research Committee, Maharaja's College Ernakulam on 6th June 2020.
- Participated in the webinar on "The Art of Reviewing the Literature by Integrating Technology" organized by Research Committee, Maharaja's College Ernakulam on 7th June 2020.
- Participated in the International Multidisciplinary Webinar- CONVERGENCE 2020 organized by the IQAC and Department of Physics, S.E.S. College, Sreekandapuram, Kannur, Kerala titled "Nano-Micro Electromechanical Resonators Based on Nanowires, Nanotubes and Graphene" on 09-06-2020
- Participated in the State Level Webinar titled SAAC: CONTEXT AND CONTENT organized by Sree Narayana College, Nattika, in association with M P Moothedath Memorial Sree Narayana Trusts College, Shoranur, Sree Narayana Guru College of Advanced Studies, Nattika, and Sree Narayana Guru College of Advanced Studies, Alathur, on 25 th July 2020
- Participated in the international webinar on "Magnetism in 2-Dimensional materials" organized by Department of Physics SARBTM Govt college, Koyilandy on 24-08-2020
- Participated in the National Webinar entitled "Outcome Based Education: Methods & Modalities" organized in academic collaboration with Kerala State Higher Education Council by the Internal Quality Assurance Cell, Sree Narayana College, Nattika, Thrissur, Kerala on 31st October 2020

Paper/Poster presented

- Presented a paper in the 2nd International Conference on Recent Trends in Materials Science & Devices 2023 (29-31 December, 2023) Organised by Research Plateau Publishers & Sat Kabir Institute of Technology & Management Bahadurgarh, Haryana, India
- Presented a poster in the two-day multidisciplinary National conference and Research Expo, organized by Scholars Connect(Researcher's forum of Christ college, Irinjalakuda) on 14,15 February 2024

- Presented a paper in SCIENTIA-2, Multidisciplinary international conference and Research Expo 2024 organized by Scholars Connect, Researcher's forum of Christ college, Irinjalakuda affiliated to the University of Calicut from 5-7 November 2024
- Presented a paper in the international conference on "Innovative Functional Materials (ICIFM-2025)" organized by the Department of Physics, Christ College Irinjalakuda, in collaboration with the Kerala State Higher Education Council, on February 17-18,2025

Paper Published

- Kavithaa, M. V., C. K. Anjalia, and K. S. Sudheerb. "Device simulation and optimization of HTL-free perovskite solar cell with CH₃NH₃SnBr₃ as the absorber layer using solar cell capacitance simulator software." *Journal of Ovonic Research* 20.2 (2024): 245-254.
- Kavitha, M. V., and K. Sudheer Sebastian. "Device modelling and performance enhancement of FASnI₃-based perovskite solar cell with diverse, compatible charge transport layers." *Results in Optics* 18 (2025): 100783

Academic responsibilities undertaken

- Co-ordinator of open course
- Secretary of staff Association
- Co-ordinator of Science club
- Nodal officer of University admission
- Member of Attendance committee
- Member of Guidance and counselling centre
- Member of career guidance and placement cell
- Member of Remedial coaching centre
- Member of centre for Human rights and democracy
- Member of Ethics committee
- Member of computer centre
- Member of ASAP
- Member of PG forum
- Member of PTA executive committee
- Member of Website committee

- Accompanied 47 BSc Physics students, Sree Narayana College, Nattika for one day industrial visit on 08-02-19 at the 110 kV substation, KSEB Valapad
- Accompanied 37 BSc Physics Students, Sree Narayana college, Nattika for one day industrial visit on 28-02-2023 at C-MET, Thrissur
- Accompanied 31 science club members, Sree Narayana College, Nattika for one day industrial visit on 30-11-23 at Vijnan sagar ,science and technology park. Thrissur
- Accompanied 24 BSc Physics students ,Sree Narayana college Nattika for an industrial visit on 02-02-2024 at the National Institute of Oceanography, Goa