

**Government College Madappally**

**Faculty Profile**

Name of Faculty	Dr.NITHYAJA B		
Department	PHYSICS		
Designation	ASSISTANT PROFESSOR		
Email ID			
Teaching Experience(Yrs)	11		
Field of Research(if any)	PHOTONICS, NANO SCIENCE		
Research Activities	RESEARCH GUIDE ( 2 STUDENTS)		
Major and Minor projects undertaken	Photonic Applications of Dye Doped Thin Films Prepared Prepared In DNA based Biotemplate( Completed minor project - UGC funded (205-2017) Order no: 1641-MRP/14-15/KLCA026/UGC-SWRO		
List of publications	<p>1.1. B. Nithyaja, V. K. Jisha, R. Tintu, A.V. Saramma and V. P. N. Nampoori; "kinetics of bacterial colony growth by laser induced fluorescence" , Laser Phys. 19, 468 (2009)</p> <p>2. Nithyaja Balan, Misha Hari, Vadakkedathu Parameswaran Narayana Nampoori; "Selective mode excitation in the dye -doped DNA polyvinyl alcohol thin film", Appl. Opt. 48 3521(2009)</p> <p>3. B. Nithyaja, H. Misha, P. Radhakrishnan and V P N Nampoori; " Effect of DNA on nonlinear optical properties of Rhodamine6G-PVA solution", J. Appl. Phys. 109, 023110 (2011)</p> <p>4. Nithyaja B, Yogeshwar Nath M , Amit Kumar S,Misha H and Nampoori V P N; "Linear and nonlinear optical properties of silver nanoparticles stabilized by bovine serum albumin" J. Nonlinear Optical Physics and Materials 20 (2011)</p> <p>5. B. Nithyaja, H. Misha and V.P.N. Nampoori " Synthesis of silver nanoparticles in DNA template and its influence on nonlinear optical properties "; Nanoscience and Nanotechnology, 2(4), pp. 99-103, 2012</p> <p>6. B. Nithyaja, K. Vishnu, S. Mathew, P. Radhakrishnan, and V. P. N. Nampoori "Studies on CdS nanoparticles prepared in DNA and bovine serum albuminbased biotemplates" J. Appl. Phys 112, 064704 (2012)</p> <p>7. Nithyaja B, Misha H, Nampoori V P N; "Fluorescence enhancement of silver nanoparticles using DNA as a stabilizing agent", Proc. SPIE 8173, 81731K (2010)</p> <p>8. K.Vishnu ,B. Nithyaja ,C. Pradeep , R. Sujith ,P. Mohanan and V.P.N. Nampoori; "Studies on the effect of mobile phone radiation on DNA using laser induced fluorescence technique", Laser Phys. 21, 1(2011))</p> <p>9. Rose Leena Thomas, Vasuja, Misha Haril, B. Nithyaja S. Mathew, I. Rejeena, Sheenu Thomas , V. P. N. Nampoori and P. Radhakrishnan; "Optical Limiting in TeO -ZnO glass from Z-scan technique" , J. Nonlinear Optical Physics &amp; Materials 20, 3 (2011)</p> <p>10. M. Libish, J. Linessh, M. C. Bobby, B. Nithyaja, S. Mathew, C. Pradeep, P. Radhakrishnan "Glucose concentration sensor based on long period grating fabricated from hydrogen loaded photosensitive fiber ", T.; Sensors &amp; Transducers Journal, Vol. 129, Issue 6, pp. 142-148, (2011) .</p> <p>11. Sasidharan Sreeja, Balan Nithyaja, Debasis Swain, Vadakkedathu Parameswaran Narayana Nampoori, Padmanabhan Radhakrishnan Soma Venugopal Rao "Nonlinear Optical Studies of DNA Doped Rhodamine 6G-PVA Films Using Picosecond Pulses"Optics and Photonics Journal 2 135-139 (2012)</p> <p>12. C. Pradeep, S. Mathew, B. Nithyaja, P. Radhakrishnan, V. P. N. Nampoori "Effect of marine derived deoxyribonucleic acid on nonlinear optical properties of PicoGreen dye "Applied Physics B (2013 )</p> <p>13. Rejeena, B.Lillibai, B.Nithyaja, V.P.N.Nampoori, P.Radhakrishnan "Optical Studies on Sol-Gel Derived Lead Chloride Crystals" J. Engineering, Computers &amp; Applied Sciences Vol. 2, No 4 (2013)</p> <p>14. C. Pradeep-S. Mathew-B. Nithyaja- P. Radhakrishnan-V.P.N. Nampoori "Studies of nonlinear optical properties of PicoGreen dye usingZ-scan technique" Appl Phys A 115:291-295 (2014)</p> <p>15. Dileep Krisnan P, Nithyaja B, Pavena K " Biophotonics fo Life with Special Emphasis on DNA &amp; Silk as Biomaterials" Intenational Journal of Modern Trends in Engineering and Science Vol: 4 Issue 03 (2017)</p>		
Administrative responsibilities	IQAC MEMBER,RESEARCH COMMITTEE COVENOR, WOMEN CELL MEMBER		
Students related activities			
Books published			
Awards/Honours			
Countries visited			
Address for correspondence (with pincode)	MEETHALE KUNNOTH,MADAPPALLY COLLEGE (PO), VATAKARA, CALICUTPIN -673102		
<b>Academic qualifications</b>			
Name of Degree	Name of Board/University	Year of passing	Subject
Graduation	UNIVERSITY OF CALICUT- GOVT.COLLEGE MADAPPALLY	2000	PHYSICS
Post graduation	IIT MADRAS	2002	
M.Phil		2005	
Ph.D	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	2012	
Others	M.TECH - COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	2005	