

DETAILED FACULTY BIODATA FOR COLLEGE WEBSITE JUNE 2024 TO MAY 2025		
Sl. No.	Name	Dr. Deepak Nand
1	Designation	Assistant Professor
2	Department	Physics
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8	Personal Web Page	
9	Date of Entry into Service	17.10.2012
10	Date of Retirement	31.03.2038
11	Edu. Qualifications	MSc, PhD
12	Areas of Interest/Specialisation	Advanced Electronics, Spectroscopy , Solid State NMR and Nano Science
13	Courses/Subject Taught	BSc, MSc Physics
14	Field of Research	Solid State NMR, Protein Structure studies, Nano Science
15	Guideship Details (Guideship order number and date, Research Centre, Number of PhD students & title of their research topic)	

	<ol style="list-style-type: none"> 1. Affiliated University: University of Kerala 2. Subject: Physics 3. Guideship Order Number & Date: Ac.EVI(4)/25485/2015 dtd. 10.12.2015 4. Research Centre: Sree Narayana College for Women, Kollam 5. Number of Full time PhD Research Scholars: Nil 6. Number of Part time PhD Research Scholars: 02 7. Details of PhD Research Scholars (Full Name, Title of Topic, Year of Joining: <ol style="list-style-type: none"> 1. Sona G. Krishnan, Synthesis and Characterization of Individual and Mixed Metal Oxide Nanoparticles: Applications in Photocatalysis and Biological Systems, 2018 2. Seena Sivadas, Synthesis of Nanocomposites and a Study on their Multiple Desirable Properties for Related Enhanced Applications, 2018
16	Google Scholar Profile Link/ORCID ID/Research Gate Profile Link (Give the links)
17	Patent Obtained/Applied (Give the details)
18	Teaching Experience (Permanent) (Give the details)
	1. 12 years, 6 months(UG & PG)
19	Teaching Experience (Contract) (Give the details)
	1.
20	Research Experience
	<ul style="list-style-type: none"> ▪ Post-doctoral Fellow, Utrecht University, Utrecht, The Netherlands 2011 – 2012 (July)

	<ul style="list-style-type: none"> ▪ Research Scholar, Utrecht University, Utrecht, The Netherlands 2008 - 2011 PhD thesis: Solid-state NMR on Complex Biomolecules: Novel Methods and Applications ▪ Research Scholar, Max- Planck-Institute for Biophysical Chemistry, 2007 - 2008 Göttingen, Germany. ▪ Project Assistant, National Chemical Laboratory, Pune, India 2005 - 2007
21	Memberships in Learned Bodies/Societies, If Any
	1.
22	Scholarships/Fellowships Obtained
	1.
23	Research Papers Published (Mention UGC Care Listed/Peer-reviewed). Include Name of Authors, Year, Name of Journal, Volume, Page numbers, ISSN Number, DOC if any
	<ul style="list-style-type: none"> ▪ Sona G Krishnan, Deepak Nand, <i>A Comparative Study of the individual and Mixed Oxide Nanostructures on Sunlight Driven Degradation of Methylene Blue Dye and Antimicrobial Efficacy</i>, September 2024, Brazilian Journal of Physics 54:230 https://doi.org/10.1007/s13538-024-01610-y. ▪ Sona G. Krishnan, Deepak Nand, Seena Sivadas, Ahmed Alfarhan, Karnan Muthusamy, <i>CuO/NiO bimetallic nanocomposite: A facile DNA assisted synthetic approach and evaluation of bio efficacy</i>, Journal of King Saud University – Science, January 2022, 101718, https://doi.org/10.1016/j.jksus.2021.101718. ▪ Rehna R, Nand D, <i>Size and shape controlled seed mediated biosynthesis of silver nanoparticles. AIP Conference Proceedings 2379, 030015 (2021)</i> ▪ Maria Pilar Lopez Deber, David T. Hickman, Nand D, Marc Baldus, Andrea Pfeifer and Andreas Muhs. <i>Engineering amyloid-like assemblies from unstructured peptides. PLoS One, 9 (9) , . 2014.</i> ▪ Nand D, van der Crujisen EA, Weingarh M, Prokofyev A, Hornig S, Cukkemane AA, Bonvin AM, Becker S, Hulse RE, Perozo E, Pongs O, Baldus M. Importance of lipid-pore loop interface for potassium channel structure and function. Proc Natl Acad Sci U S A. 2013 Aug 6;110(32).

	<ul style="list-style-type: none"> ▪ Peter J.C. Hausoul, Tamara M. Eggenhuisen, Nand D, Marc Baldus, Bert M. Weckhuysen, Robertus J.M. Klein Gebbink, Pieter C.A. Bruijninx. <i>Development of a 4,4'-biphenyl/phosphine-based COF for the heterogeneous Pd-catalysed telomerisation of 1,3-butadiene</i> <i>Catal. Sci. Technol.</i> 3 (2013) 2571-2579. ▪ Weingarth M, Prokofyev A, Van der Crujisen E, Nand D, Bonvin A, Pongs O, Baldus M. <i>Structural determinants and functional aspects of specific lipid binding to potassium channels.</i> <i>J Am Chem Soc.</i> 2013 Mar 13;135(10):3983-8 ▪ Gradmann S, Ader C, Heinrich I, Nand D, Dittmann M, Cukkemane A, van Dijk M, Bonvin AM, Engelhard M, Baldus M. <i>Rapid prediction of multidimensional (solid-state) NMR data sets.</i> <i>J Biomol NMR.</i> 2012 Dec;54(4):377-87. ▪ Weingarth M, Ader C, Melquiond A, Nand D, Pongs O, Becker S, Bonvin A, Baldus M. <i>Supramolecular structure of membrane-associated polypeptides by combining solid-state NMR and Molecular Dynamics simulations,</i> <i>Biophysical journal</i>, 2012 Jul 3;103(1):29-37. ▪ Nand D, Cukkemane A, Becker S, Baldus M. <i>Fractional Deuteration applied to biomolecular solid-state NMR.</i> <i>J Biomol NMR.</i> 2012 Feb;52(2):91-101. ▪ Cukkemane A, Nand D, Gradmann S, Weingarth M, Kaupp UB, Baldus M. <i>Solid-state NMR [(13)C, (15)N] resonance assignments of the nucleotide-binding domain of a bacterial cyclic nucleotide-gated channel.</i> <i>Biomol NMR Assign.</i> 2012 Oct;6(2):225-9. ▪ Renault M, Pawsey S, Bos MP, Koers EJ, Nand D, Tommassen-van Boxtel R, Rosay M, Tommassen J, Maas WE, Baldus M. <i>Solid-state NMR spectroscopy on cellular preparations enhanced by dynamic nuclear polarization.</i> <i>Angew Chem Int Ed Engl.</i> 2012 Mar 19;51(12):2998-3001. ▪ Schneider R, Schumacher MC, Mueller H, Nand D, Klaukien V, Heise H, Riedel D, Wolf G, Behrmann E, Raunser S, Seidel R, Engelhard M, Baldus M. <i>Structural characterization of polyglutamine fibrils by solid-state NMR spectroscopy.</i> <i>J Mol Biol.</i> 2011 Sep 9;412(1):121-36. ▪ Hickman DT, López-Deber MP, Ndao DM, Silva AB, Nand D, Pihlgren M, Giriens V, Madani R, St-Pierre A, Karastaneva H, Nagel-Steger L, Willbold D, Riesner D, Nicolau C, Baldus M, Pfeifer A, Muhs A. <i>Sequence-independent Control of Peptide Conformation in Liposomal Vaccines for Targeting Protein Misfolding Diseases.</i> <i>J Biol Chem.</i> 286(16): p. 13966-76. (2011).
24	Popular Article Published

	1. 2.
25	Books Published (Include ISBN/ISSN Number)
	1. 2.
26	Papers Presented
	1. Oral Presentation on “ A 3D structural view of ion channel inactivation in lipid bilayers using Solid state NMR” in the International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications (AFMEEB-2017) on 11-12 December 2017 at Madurai Kamaraj University, Madurai. 2.
27	Invited Talks/Public Talks delivered
	1. 2.
28	Collaboration/Consultancy/Linkages
	1. 2.
29	Orientation Courses Attended
	<ul style="list-style-type: none"> ▪ NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, University of Kerala, Kariavattom, Thiruvananthapuram from 04-11-2024 to 14-11-2024.
30	Refresher Courses Attended

	<ul style="list-style-type: none"> ▪ Two Week Online refresher course in Physics, Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Nirmala College, Muvattupuzha, Kerala under the aegis of Ministry of Education (PMMMNTT) 09 – 23 June, 2023. ▪ Two week Online Interdisciplinary Subject Refresher Course in Learning Outcomes and Educational Reform- Pedagogy, Assessment and Quality Assurance, UGC- HRDC, Aligarh Muslim University, December 18November-02December2020. ▪ FDP on Managing Online Classes and Co-creating MOOCS:2.0, Teaching Learning Centre, Ramanujan College, University of Delhi, 18th May to 3rd June 2020. ▪ FDP on Advanced Concepts for Developing MOOCS, Teaching Learning Centre, Ramanujan College, University of Delhi, 02-17 July 2020 ▪ 97th Online Short Term Course on E - Content Development, UGC – Human Resource development Centre, Gujarat University, Ahmedabad, 23-29 July 2020 ▪ Short Term FDP on Nanomaterials Characterisation Techniques and Result Analysis Methodology :Ideas, Innovations and Initiatives(Physics), Shikshan Prasarak Sanstha's S.N.Arts, D.J.Malpani Commerce & B.B.Sarda Science College, Sangamner, Pune, 27-31 July 2020 ▪ Short Term FDP on 'Towards a Digital Era of Teaching and Learning', KSMDDB College, Saathamcotta, 12- 18 August 2020 ▪ One week Summer School on "Advanced Functional Materials for Energy Harvesting , Storage and Biomedical Applications", Bishop Moore College, Mavelikara, 13-19 May 2020
31	Seminars/Workshops/Training Organised

	<p>1. Co-Convener, National Seminar on Recent Trends in Bio-Nano Photonics, Sree Narayana College for Women, Kollam, 19th- 20th December 2013</p> <p>2. Co-Convener, National Seminar on Fitness and Lifestyle Disease Management, Sree Narayana College for Women, Kollam, 26th- 27th March 2015</p> <p>3. Organised an International webinar in Physics as part of Crossroads 2020, a multidisciplinary International Webinar series on 22nd July , 2020.</p>
32	Workshops Organised
	<p>1.</p> <p>2.</p>
33	Training Organised
	<p>1.</p> <p>2.</p>
34	Orientation Programmes/Induction Programmes Organised
	<p>1.</p> <p>2.</p>
35	FDP/Any Other Programmes Organised
	<p>1. Convenor, District level Program on 100th Birthday Celebration of Bohr Atom Model in collaboration with APT and KSCSTE, Sree Narayana College for Women, Kollam. 21st January 2015</p> <p>2. Co-ordinator, URJA KIRAN 2017-18, Awareness Program on Energy Conservation and Management Tips, Govt, LPBS Kolloorvila, Puthennada, Thekkevila, Kollam, 25th March 2018.</p>

	<p>3. Organizing Member, Youth and Mental Health Challenges in the Challenging World, Sree Narayana College for Women, Kollam, 23rd October 2018.</p> <p>4. . Co-ordinator, URJA KIRAN 2018-19, Awareness Program on Energy Conservation and Management Tips, Govt, LPBS Kolloorvila, Puthennada, Thekkevila, Kollam, 17th March 2019.</p>
36	Startups/Innovation/Incubation Centre (Give the details)
	1.
37	Seminars/Conferences Attended
	1. 2.
38	Workshops Attended
	1. The NPTEL Workshop conducted by IIT Madras at College of Engineering, Trivandrum on 22 nd January 2019
39	Trainings Attended
	1. 2.
40	Extension Activities Organised/Participated inside the Campus
	1. 2.

41	Extension Activities Organised/Participated outside the Campus
	1. 2.
42	Representation in Syndicate/Senate/Academic Council/Board of Studies
	1. 2.
43	Tutorship in UG/PG (Mention the Class and Year/Batch)
	1. UG - 2012-15 Batch(3 years) 2. UG – 2018-21 Batch (3 years) 3. PG – 2021-23 Batch (2 years) 4. UG – 2023-26 Batch (2 years)
44	Academic Responsibilities Undertaken
	1. 2.
45	Any other Duties Performed at College
	1. Chief Superintendent of Examinations (2024 -26) 2. College Admission Coordinator (2020-2023) 3. RUSA Co-cordinator (Since 2019)

	4. DST-FIST member
	5. PTA executive member(2016-17)
	6. Research Committee Member
	7. IQAC member (2018-19)
	8. College calendar & Handbook Committee Co-ordinator
	9. Audio Visual Co-ordinator (2013-2018)

Kindly attach a photograph as email attachment if you need to update in the website