

DETAILED FACULTY BIODATA FOR COLLEGE WEBSITE JUNE 2024 TO MAY 2025		
Sl. No.	Name	ASWATHY B R
1	Designation	Assistant Professor
2	Department	Physics
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9	Date of Entry into Service	17-10-2012
10	Date of Retirement	31-05-2037
11	Edu. Qualifications	M Sc, M Ed, CSIR- NET
12	Areas of Interest/Specialisation	Thin films and Nanomaterials
13	Courses/Subject Taught	B Sc (Core and Complementary) Physics, M Sc Physics
14	Field of Research	Synthesis and characterization of TCO
15	Guideship Details (Guideship order number and date, Research Centre, Number of PhD students & title of their research topic)	

	1. Affiliated University: 2. Subject: 3. Guideship Order Number & Date: 4. Research Centre: 5. Number of Full time PhD Research Scholars: 6. Number of Part time PhD Research Scholars: 7. Details of PhD Research Scholars (Full Name, Title of Topic, Year of Joining): 1. 2. 3. 4.
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, 7 months
19	Teaching Experience (Contract) (Give the details)
	1.
20	Research Experience

	1.
21	Memberships in Learned Bodies/Societies, If Any
	1. Life Member in Academy of Physics Teachers (APT) , Kerala 2. Life Member in Indian Academy of Physics Teachers (IAPT) 3. Life Member in Kerala Academy of Sciences (KAS)
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
	<p>1. Aswathy B R, K. Vinay, M. Arjun, and P. K. Manoj, <i>Structural studies of Zinc oxide thin film by sol-gel dip coating method</i>, published in 31st Kerala Science Congress Proceedings, 214-215.</p> <p>2. B. R. Aswathy, K. Vinay, M. Arjun, and P. K. Manoj, “<i>Deposition of tin oxide thin film by sol-gel dip coating technique and its characterization</i>” , Published in AIP Conference Proceedings 2162, 020134 (2019); https://doi.org/10.1063/1.5130344 Published Online: 29 October 2019</p> <p>3. Aswathy B R and P K Manoj, “<i>Influence of deposition parameter on the optical properties of ZnO thin films by dip coating method</i>”, Published in AIP Conference Proceedings 2244, 110003 (2020); https://doi.org/10.1063/5.0009213 , Published Online: 26 June 2020.</p> <p>4. Meenakshi L J , Aswathy B R , P K Manoj , “<i>Effect of annealing temperature on structural and optical properties of nickel oxide thin films by sol-gel dip coating method</i>” -Presented a paper in International Conference on Energy and Environment (ICEE-2019) held at TKMCAS, Kollam</p> <p>5. B. Sreelakshmi, S. Induja, P.P. Adarsh, H.L. Rahul, S.M. Arya, S. Aswana, R. Haripriya ,B.R. Aswathy, P.K. Manoj, Dalia Vishnudasan, “<i>Drought stress amelioration in plants using green synthesized iron oxide Nanoparticles</i>” , Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2020.05.801</p>

	6. B. R. Aswathy , Dalia Vishnudasana, P K Manoj, “ Bio-synthesis, characterization and antibacterial studies of ZnO nanoparticles ” International Journal of Materials Research
24	Popular Article Published
	<p>1. B. R. Aswathy, Dalia Vishnudasana, P K Manoj, “Bio-synthesis, characterization and antibacterial studies of ZnO nanoparticles” International Journal of Materials Research</p> <p>2. B. Sreelakshmi, S. Induja, P.P. Adarsh, H.L. Rahul, S.M. Arya, S. Aswana, R. Haripriya ,B.R. Aswathy, P.K. Manoj, Dalia Vishnudasana, “<i>Drought stress amelioration in plants using green synthesized iron oxide Nanoparticles</i>”, Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2020.05.801</p>
25	Books Published (Include ISBN/ISSN Number)
	<p>1.</p> <p>2.</p>
26	Papers Presented
	<ul style="list-style-type: none"> ▪ Paper entitled “<i>Solar Energy- Technology Feasibility</i>”, Presented in One day National Seminar on “<i>Energy Efficient Systems for Environmental protection (EEEP-14)</i>” on 27th October 2014. ▪ Paper entitled , “<i>Structural studies of Zinc oxide thin film by sol-gel dip coating method</i>”, presented in 31st Kerala Science Congress, held at Fatima Mata National College, Kollam on 02-03 February 2019. ▪ Paper entitled “<i>Deposition of tin oxide thin film by sol-gel dip coating technique and its characterization</i>”, Presented in INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS (ICAM2019), during 12-15 June 2019, at Nirmalagiri College, Kannur, Kerala, India. ▪ Paper entitled, <i>Influence of deposition parameter on the optical properties of ZnO thin films by dip coating method</i>, Presented in International Conference on Physics of Materials and

	<p>Nanotechnology (ICPN 2019) Organized by Department of Physics, Mangalore University, Karnataka, during September 19-21, 2019</p> <ul style="list-style-type: none"> ▪ Paper entitled, “<i>Effect of annealing temperature on structural and optical properties of nickel oxide thin films by sol-gel dip coating method</i>” Presented in International Conference on Energy and Environment (ICEE-2019) held at TKMCAS, Kollam, during 12-14 December 2019. ▪ Paper entitled, “<i>Optical properties of sol-gel derived Zinc oxide thin films: Effect of thickness</i>” Presented in International Conference on Energy and Environment (ICEE-2019) held at TKMCAS, Kollam, during 12-14 December 2019. ▪ Paper entitled, <i>Effect of deposition parameter on structural and optical properties of Sol-gel derived tin oxide thin films</i>, Presented in International Conference on Energy and Environment (ICEE-2019) held at TKMCAS, Kollam, during 12-14 December 2019. ▪ Paper entitled “<i>Bio-synthesis and Characterization of ZnO Nanoparticles: Structural, Optical and antimicrobial studies</i>” Presented in International Conference on Energy and Environment (ICEE-2019) held at TKMCAS, Kollam, during 12-14 December 2019. ▪ Presented a paper in the National Seminar on “Challenges and Changes in AQAR and SSR Preparation” organized by IQAC, Sree Narayana College for Women, Kollam on 19th and 20th December 2019 ▪ Presented a Paper entitled, <i>Dependence of Wettability on Synthesis Parameters in Sol-Gel Derived Sn₃O₄ Thin Films</i>, in International Conference on Advances in material Science (ICAMS-2025) held at St. Dominic’s College, Kanjirappally during 09-10 January 2025 ▪
27	Invited Talks/Public Talks delivered
	1.

	2.
28	Collaboration/Consultancy/Linkages
	1. 2.
29	Orientation Courses Attended
	1. UGC sponsored Orientation course conducted by UGC -HRDC, University of Kerala, TVPM from 8/6/2017 – 5/7/2017
30	Refresher Courses Attended
	1. UGC sponsored Refresher course in Higher education and Women managers conducted by UGC - HRDC, University of Kerala, TVPM from 26/6/2018 – 16/7/2018 2. Science Academies' 90 th Refresher course in Experimental Physics held at Bishop Moore College, Mavelikkara 2. National Online Interdisciplinary Refresher Course in <i>Structural analysis using Rietveld refinement, microscopic and compositional analysis</i> organized by Bishop Moore College, Mavelikkara
31	Seminars/Workshops/Training Organised
	<ul style="list-style-type: none"> ▪ Organized One day National Seminar on “<i>Energy Efficient Systems for Environmental protection (EEEP-14)</i>” supported by <i>Kerala State Council for Science, Technology and Environment</i>, on 27th October 2014. ▪ Organizing Member of One day Seminar - “Aesthetics of Smallness” on 8th February 2013, organized by <i>Department of physics, T K M M College Nangiarkulangara</i>. ▪ Organizing Member of Science Exhibition “Callidus-2014” for high school students of Alappuzha (Dist.) organized by <i>Department of Physics, T K M M College</i>, on 10th January 2014 . ▪ Organizing Member of International Seminar on “Laser: A non-conventional tool for medical diagnosis and treatment” on 2 5th August 2017 at <i>S N College for Women, Kollam</i> ▪ Organizing Member of National Science Day celebrations -2018, “ Technology Transfer from Lab to Land for Sustainable Development” on 26th and 27th February 2018 organized by Science Club, S N College for Women.

	<ul style="list-style-type: none"> ▪ Organizing member of “Awareness on Transgender” conducted by Social Justice Departemnt, Kollam in collaboration with SNCW , Kollam on 18th Dec 2018 ▪ Organizing Member of International Seminar series on 'Crossroads 2020', on 22nd July 2020 organised by Department of Physics, Sree Narayana College for Women, Kollam ▪ Organizing Member of World Space Week 2021 celebrations organized by Dept. of Physics, S N College for Women, Kollam in association with National Service Scheme, SNCW, Kollam ▪ Organizing Member of Sky watch- “Explore the Sky” on 20th March 2022 organized by Dept. of Physics, S N College for Women, Kollam in association with Break through Society, Kollam chapter ▪ Organizing Member of Science day Celebrations-2023 organized by Dept. of Physics , S N College for Women, Kollam ▪ Organized an invited talk on “Beyond the Senses” in connection with National Science Day celebrations 2023 on 7th March 2023 ▪ Organized an International Webinar on “Applications of Nanomaterials: Present and Future” on 8th December 2022 ▪ Organized an invited lecture on “Capturing the invisible universe with James Webb Space Telescope” on August 12th, 2022 ▪ Organized an interdepartmental Power point presentation competition in connection with National Science Day Celebrations on 27th February 2020 ▪ Organizing Member of an awareness talk on “Well Women Nutrition” on 26th July 2023 organized by Community Health Activities Club in association with Health Education Club, S N College for Women, Kollam ▪ Organizes a webinar on “Cyber addiction in Adolescents” on 20th March 2022 ▪ Organizing Member of World Space Week Celebrations -2023(4th Oct 2023- to 10th Oct 2023) ▪ Organizing Member of Seminar on “Sustainable Mental Health” on 10th Oct 2023 ▪ Organizing Member of <i>International Webinar series on 'Dialectics 2024”</i> on 12th Feb 2024 by Department of Physics, Sree Narayana College for Women, Kollam Topic : “Mechanical reinforcement of polymer colloidal crystals by super critical fluids” ▪ Organizes an Awareness talk on “Well Women Nutrition” and thyroid testing camp in Association with Meditrina Hospital and DDRC, Kollam on 26th July 2023 ▪ Organized a seminar on Cyber Security on 28th November 2024 , in association with Kerala kaumudy, Kollam
32	Workshops Organised

	<ul style="list-style-type: none"> ▪ 1. Organized NPTEL Awareness Workshop(online) at SN college for women Kollam on 21st May 2021 ▪ <i>Organized One day Workshop “ Experiments in Physics” for higher secondary students of Alappuzha (Dist.)</i> organized by Department of Physics, T K M M College, on 26th July 2013. ▪ Hands-on led assembly & repair workshop organized by Department of Physics and Institution innovation council , SNCW, Kollam on <i>December 1, 2023</i> ▪ <i>Organized One day Workshop on “Space Science Programme” on 4th October 2018 at S N College for Women, Kollam</i>
33	Training Organised
	Organized One day Training Programme on “Human Rights” on 18 th March 2015, organized by Department of Physics, T K M M College, Nangiarkulangara
34	Orientation Programmes/Induction Programmes Organised
	1. 2.
35	FDP/Any Other Programmes Organised
	1. 2.
36	Startups/Innovation/Incubation Centre (Give the details)
	1.
37	Seminars/Conferences Attended
	<ul style="list-style-type: none"> ▪ <i>Attended in UGC sponsored National Seminar on Research Instrumentation for Interdisciplinary Science: RIISc-2014</i> organized by Iqbal College, Peringamala on 22-23 January 2014. ▪ <i>Attended in UGC sponsored National Seminar on Applications of Advanced Nanomaterials (NSNANO-2014)</i> organized by S N College, Kollam on 25-26 February 2014

- Attended One day Seminar held in connection with the 100th birthday celebration of Bohr Atom Model organized by S N College for Women, Kollam on 21st January 2015.
- Attended UGC sponsored National Seminar on ***Fitness and Life style disease management*** organized by S N College for Women, Kollam on 26-27 March 2015
- Attended UGC sponsored National Seminar on ***Spectroscopic Techniques-Present Scenario (NSST-2015)*** organized by T K M M College, Nangiarkulangara on 17-19 September 2015.
- Attended in **Spectrum Seminar Series 2015-2016** organized by Department of Physics, S N College, Chempazhanthy on 3rd March 2016.
- Attended Science Academies' Lecture Workshop on **"Quantum theory of Angular momentum,** hosted by T K M College of Arts and Science, Kollam during 14-16 March 2018.
- Attended UGC sponsored National Seminar on ***Interdisciplinary Approaches in Materials and Biological Research,*** organized by Mahatma Gandhi College, Thiruvananthapuram on 16-17 February 2018.
- Attended **31st Kerala Science Congress,** held at Fatima Mata National College, Kollam on 02-03 February 2019.
- Attended **INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS (ICAM2019),** during 12-15 June 2019, at Nirmalagiri College, Kannur, Kerala, India
- Attended **International Conference on Physics of Materials and Nanotechnology (ICPN 2019)** Organized by Department of Physics, Mangalore University, Karnataka, during September 19-21, 2019
- Attended **International Conference on Energy and Environment (ICEE-2019)** held at TKMCAS, Kollam, during 12-14 December 2019.
- Attended National webinar on **"Applications of Vibrational Spectroscopy",** on 28th July

	<p>organized by Department of Physics & Research Centre, Women's Christian College, Nagercoil</p> <ul style="list-style-type: none"> ▪ Attended in First National Students Conference on Spectroscopy (NSCoS 2020), jointly organized by SciRox (Science Club), Guru Nanak Dev University, Amritsar and Chemical Research Society of India and sponsored by ACS Publications on 16th and 17th October 2020. ▪ Attended in International Webinar on 'Earthquake studies and their prediction possibilities' organized by the Department of Physics, Sree Narayana College for Women, Kollam on 25 May, 2021.
38	Workshops Attended
	<ul style="list-style-type: none"> ▪ Attended Workshop on <i>"Crystal Growth of Functional and Exotic materials" organized by Centre for High Pressure Research</i>, Department of Physics, Bharathidasan University, Thiruchirappalli, during 6-10 August 2018. ▪ Attended One-day workshop on Computer Interfaced Science Experiments with ExpEyes-17 at TKM College of Arts and Science, Kollam on 18th October 2019. ▪ Attended in One day workshop on 'Optimizing Research Steps towards Centre for Excellence' organized by T K M College of Arts and Science, Kollam on 22 March, 2023.
39	Trainings Attended
	<ul style="list-style-type: none"> ▪ Attended in Two Day National Faculty Development Programme on "Need for Examination Reforms in Changing Scenario" on 12-13 August, 2020 organized by Bishop Moore College, Mavelikara. ▪ Attended in Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0" from May 18 - June 03, 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi. ▪ Attended in One Week Faculty Development Programme on "Open-Source Tools for Research" from June 08 - June 14, 2020, organized by Teaching Learning Centre, Ramanujan College, University of Delhi.

- Attended in Two Weeks Faculty Development Programme on **"ADVANCED CONCEPTS FOR DEVELOPING MOOCS"** from July 02 - July 17, 2020, organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
- Attended in One Week online **Short term Faculty Development Programme** (Interdisciplinary) on **"Towards a Digital Era of Teaching and Learning"**, organized by UGC-HRDC, University of Kerala, Thiruvananthapuram in collaboration with KSMDB College, Sasthamcotta from August 12-18, 2020.
- Attended the One Week online **Short term Faculty Development Programme** on **"Implementation of Information and Communication Technology in Teaching"**, organized by School of Legal Studies , CUSAT in collaboration with KSHEC from July 18-24 , 2020.
- Attended the One Week online **short-term Faculty Development Programme** on **"ICT Tools for Teaching Learning Process- Post Pandemic Educational Strategies"** organized by Department of Physics and IQAC Sree Narayana College Kollam in collaboration with KSHEC from August 17-23, 2020.
- Attended in a Two Day Online National level Faculty Development Program on **"Virtual Physics Labs"** on 4th & 5th June 2020 organized by MALLA REDDY INSTITUTE OF ENGINEERING AND TECHNOLOGY, Hyderabad.
- Attended in **Moodle Learning Management System** training organized at **Sree Narayana College, Chengannur** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.
- Attended the One Week Online Short-Term Faculty Development Programme on **"PEDAGOGICAL AND E-LEARNING TOOLS FOR TEACHING"** organized by Sanatana Dharma College, Alappuzha in collaboration with The Kerala State Higher Education Council from 04th -10th August 2020.
- Attended in Two Weeks Faculty Development Programme on **"ICT Based New Paradigms of E-Teaching and E –Learning "** during September 16- 30, 2020 organized by Mats Sundari College for

	<p>Women in association with Teaching Learning Centre, Ramanujan College, University of Delhi.</p> <ul style="list-style-type: none"> ▪ Attended in One Week Online FDP on "Research Ethics & Characterization Techniques in Materials Science" during 9-15 September 2020 organized by Bishop Moore College Mavelikara in association with St. John's College Agra and Guru Angad Dev Teaching Learning Centre of MHRD , PMMMNMTT (SGTB Khalsa College, Delhi University). ▪ Participated in One Week E-summer school on Advanced Functional materials for Energy Harvesting, Storage and Biomedical Applications during 13-19 May 2020 organized by Bishop Moore College, Mavelikara in association with The Kerala State Higher Education Council. ▪ Participated in "Heights 2023- KU Researchers Fest" at University of Kerala on 21st June 2023
40	Extension Activities Organised/Participated inside the Campus
	<ol style="list-style-type: none"> 1. 2.
41	Extension Activities Organised/Participated outside the Campus
	<ol style="list-style-type: none"> 1. 2.
42	Representation in Syndicate/Senate/Academic Council/Board of Studies
	<ol style="list-style-type: none"> 1. 2.
43	Tutorship in UG/PG (Mention the Class and Year/Batch)

	1. M Sc Physics (2022-2024) 2. B Sc Physics (2015-2016) 3. B Sc Physics (2016-2017)
44	Academic Responsibilities Undertaken
	1. Member of NIRF documentation committee 2. DLMC member 3. Member of <i>College Calendar and Handbook committee</i> 4. Member of <i>College Union Election committee</i> 5. Member of <i>Admission Committee- UG and PG admissions</i> 6. Member of <i>Code of Conduct Committee</i>
45	Any other Duties Performed at College
	7. Single Point of Contact, SPOC of SWAYAM- NPTEL online courses 8. Resource Person of KSITM course” Capacity Building in IT for Girls ” at S N College for Women, Kollam during the academic year 2017-18, 2018-2019 and 2019-2020. 9. Acted as Evaluator of one week FDP on ‘ Digital Content Management on E-Learning ’, organized by Sree Narayana College for Women, Kollam in collaboration with The Kerala State Higher Education Council from June 13-19,2021 10. Science Club Member (2018-2020) 11. Health Education Club member (2018-2020) 12. Community Health Activities Club member (2020-2024) 13. Encon Club (Energy conservation) member (2020-2021) 14. Placement cell member (2022-2024) 15. Indian Knowledge System Cell member(2024-2025) 16. Digital Literacy Club Co-ordinator(2024-25)

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