

Name:	 <p style="text-align: center;">Photo</p> <p>Dr.B.Anusha</p>		
Designation:	Associate Professor		
Qualification:	M.Sc. , M.Phil., Ph.D		
Area of specialization:	Materials Science		
Experience:	Industrial Experience		Teaching Experience
	Nil		24 Years
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs
	12		10
Publications:	Conference		Journal
	National	International	National
	2	1	5
Books / Book Chapters	-		
Patents:	National		International
	2		
Professional Body Membership	ISTE, IEEE		
Research	Google Scholar ID: Scholar Id _mr8-KIAAAAJ Researcher ID: AAE-5280-2022 Orcid ID: 0000-0002-1409-2765 Scopus ID: 57280093800		

Staff Achievements	<p>SCOPE member for Science Club</p> <p>SCOPE member for IEEE UFFC Society</p> <p>Scope member for NIRF</p> <p>NBA Coordinator for Science and Humanities</p> <p>Co ordinator for winter Internship Program</p> <p>Co ordinator for Culturals during the year 2012, 2017 and 2019</p> <p>Coordinator for College day during the year 2025.</p> <p>Science and Humanities Symposium SIT SCIHAM</p> <p>Coordinator during the year 2009, 2010 and 2023</p> <p>Program Coordinator for Two weeks Research Internship Program for <u>M.Sc.</u> students during the period 26.12.2024 to 07.01.2025</p> <p>Coordinator for FDP program Characterisation of Materials organized during the period 20.7.2017-21.7.2017.</p>
---------------------------	--

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	Physics	1998	S.F.R.College for Women	M.K. University	83	I
PG	M.Sc.	Physics	2000	The American College	M.K. University	61	I
	M.Phil ,	Physics	2003	M.S. University	M.S. University	70	I
Ph.D.	Ph.D	Physics	2023	SRM Valliammai Engg. College	Anna University	Highly Recommended	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sai Ram Engineering College	Associate Professor	1.6.2025	Till date	0	5	19
Sri Sairam Institute of Technology	Associate Professor	1.7.2009	31.5.2025	15	11	
Sri Sai Ram Engineering College	Sr. Lecturer	24.8.2007	30.6.2009	1	10	6
Madha Engineering College	Sr. Lecturer	17.6.2002	22.8.2007	5	2	5
Lord Venkateshwara Engineering College	Lecturer	23.8.2001	12.7.2002		10	19
C.P.A. College	Lecturer	12.7.2000	31.10.2000		3	19
				24	7	8

Workshops/Seminars attended:

1. One day National level workshop on “How to conduct student Induction Program” on 20th Sep 2021 organised by AICTE, New Delhi.
2. Six days National level workshop on “Smart material Sensor and Energy Devices “during the period 25.5.20 to 30.5.20 organized by SSN College of Engineering, Chennai.
3. One day National level workshop on “ The Excitement of College Physics” on 6th July 2019 organized by Vellore Institute of Technology, Chennai.
4. One day National level workshop on “ New Engineering materials and their applications” organized by SRM Valliammai Engineering College on 6th July 2019.
5. Two days National level workshop on “ The state of the Art Analytical Equipment” organized by Madras Institute of Technology, Anna University during the period 1st March 2019 to 2nd March 2019.
6. Three days National level workshop on “ Computational Tool in Biomolecular Research”

organized by Sathyabama Institute of Science and Technology during the period 6th Feb 2019 to 8th Feb 2019.

7. Two days National level workshop on “ Trends in Materials and Technology” organized by Jeppiar Engineering College during the period 27th July 2017 to 28th July 2017.
8. Two days National level workshop on “ Revealing the advance in Materials Sciences” organized by Sri SairamInstitute of Technology during the period 19th July 2016 to 20th July 2016.
9. One day National level workshop on “ Advancement in Chemical Sciences” organized by Sri SairamInstitute of Technology during the period 18th July 2016.
10. One day National level workshop on “ Environmental and Sustainable development ” organized by Sri SairamInstitute of Technology during the period 18th July 2016.
11. Three days National level workshop on “ Nanofabrication Technologies” organized by Indian Institute of Technology, Mumbai during the period 25th May 2016 to 27th May 2016.
12. One day workshop on “ Art of Journal and Thesis Writing” organized by Sri Sai Ram Engineering College on 19th Jan 2012.

FDP/STTP Attended:

1. Six days FDP on “ Recent Trends in Quantum Computing with Cyber Forensic System” in association with IEEE SMC and Cyber Society of India Organized by the Department of Computer Science and Engineering (Cybersecurity), Sri Sairam Institute of Technology during the period 23rd June 2025 to 30th June 2025.
2. Two-week International FDP on “ Advanced Computational and Experimental Research in Physics organized by the Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai from 21st July 2025 to 1st August 2025.
3. Five days FDP on “ Personal and Professional Management” jointly organized by MBA Department of Management Arka Jain University - Jharkhand, Research Foundation of India & RFi- CARE from 11-15 June 2024.

4. Two-day FDP on “ Advances in Material Science” organized by Department of Physics, Sri Sairam Institute of Technology on 4th and 5th April 2024.
5. One week FDP on “ Green Biotechnology and Bioenergy” organized by Department of Biotechnology, Arunai Engineering College, Thiruvannamalai in association with Biotech Research Society, India, Indian Society for Technical Education and Institution’s Innovation Council chapter from 18th to 24th December 2023.
6. One week FDP in “ Frontiers of Materials Science” organized by the Department of Physics, Sathyabama Institute of Science and Technology, Chennai from 12th to 20th September 2022.
7. One week FDP in “ Nanotechnology” organized by the AICTE Training and Learning (ATAL) Academy at Visveswaraya National Institute of Technology from 24th to 28th August 2020.
8. One week FDP in “ Nanomaterials for Energy harvesting and Biomedical applications: organized by Godhavari Institute of Engineering and Technology from 18th to 22nd May 2020.
9. Two days FDP on “ Teaching Excellence in Engineering management “ organized by Sri Sairam Institute of Technology & Sri Sairam Institute of Management studies from 20th to 21st June 2016.
10. One day FDP on “ A step to Outcome based Accreditation” organized by Sri Sairam Institute of Technology, Chennai on 4th April 2015.

Papers presented in International / National Conferences:

1. Presented a paper entitled “ Synthesis of BiVO₄/TiO₂ nanocomposites and their photocatalytic performances for the degradation of MB dye” in the International Conference on Nanoscience and Nanotechnology (ICONN 2021) organized by “6th International Conference on Nanoscience and Nanotechnology” organized by Department of Physics and Nanotechnology, SRM Institute of Science and Technology on 1st - 3rd February 2021.

2. Presented a paper entitled “ Synthesis and characterization of TiO₂ -rGO nanocomposites for the photocatalytic degradation of picric acid” in the International Conference on Nanoscience and Nanotechnology (ICONN 2021) organized by “6th International Conference on Nanoscience and Nanotechnology” organized by Department of Physics and Nanotechnology, SRM Institute of Science and Technology on 1st - 3rd February 2021.
3. Presented a paper entitled “ Controlled Synthesis and morphological investigation of TiO₂ nanostructures”, in the National Conference on “ Advances in Condensed Matter Physics (NCACMP-2018)” organized by Department of Physics, Hindusthan Institute of Technology and Science on 2nd March 2018.
4. Presented a paper entitled “ Controlled Synthesis and Morphological Investigation of CuO Nanostructure” in the National Conference on “ Driven Clean Process and Alternate Energies - Scope and Challenges (NCCP-2018)” organized by Department of Physics, Hindusthan Institute of Technology and Science on 7th February 2018.

Conference/ Symposium Attended:

1. International Conference on Modern Functional Materials (ICMFM-2021) organized by Department of Physics, Sri Sai Ram Engineering College, Chennai on 24th to 25th June 2021.
2. International Conference on Nanoscience and Nanotechnology (ICONN 2021) organized by “6th International Conference on Nanoscience and Nanotechnology” organized by Department of Physics and Nanotechnology, SRM Institute of Science and Technology on 1st - 3rd February 2021.
3. National Conference on “ Advances in Condensed Matter Physics (NCACMP-2018)” organized by the Department of Physics, Hindusthan Institute of Technology and Science on 2nd March 2018.
4. National Conference on “ Driven Clean Process and Alternate Energies - Scope and Challenges (NCCP-2018)” organized by the Department of Physics, Hindusthan Institute of Technology and Science on 7th February 2018.

Completed / Ongoing Projects: Nil

Resource Person:

1. Delivered a talk on 'Potentials and Opportunities in Nanocomposites' during a one day National Level Internship program to Explore New Research Insights" organized by the Department of Physics, Sri Sai Ram Engineering College on 24th August 2023.
2. Delivered a talk on 'Human Values' for the I Year Engineering students of Anna University Regional Campus Coimbatore on 12.9.2024.
3. Delivered a talk on 'Human Values' for the Department of Basic Engineering, Sri Ranganathar Institute of Polytechnic College on 13.9.2024.

Patents:

1. Published a patent on Techniques for improving the performance of Nanostructured CdS Thin films in Optoelectronic Applications, Application number: 202441070049A, Published date: 20/09/2024.
2. Published a patent on 2D Semiconducting Nanomaterials with Tailored Electronic Properties for High Performance Transistors, Application number: 202341065994A, Published date: 20/10/2023.

Journal Publications:

1. B.Anusha, AG Dileepam, R. Ramasamy et.al, Nonlinear Optical Features of Phenol Red Dye in Different Solvent Media using Z-scan and Density Functional Theory, Journal of Fluorescence, 1-14, 2025.
2. B. Anusha, M. Anbucbezhiyan, C.Deepa , R. Sribalan, Srinivasan alias Arunshankar, Novel approaches to the degradation of nitrophenols using TiO₂-biopolymer - ligand - metal complex as photocatalyst, Journal of Materials Science : Materials in Electronics, 35(8), 544, 2024.
3. B. Anusha, N.Arumugam, Al Almansour, S. Jeyaram et.al, 'Polar solvents mediated third order non linear optical features of acid green 16 dye', Journal of Optics, 2024.

4. C. Deepa, M. Anbucheziyan, B. Anusha, Growth, spectral, thermal and quantum chemical calculation of a nonlinear optical material N-acetyl-L-leucine, *Journal of Materials Science : Materials in Electronics* 34 (1), 1190, 2023.
5. B. Anusha, S. Jeyaram, 'Solvatochromism effect on third-order NLO properties of Azo dye', *Journal of Optics*, 1-8, 2023
6. B. Anusha, S. Devanesan, MS AlSalhi et.al. 'A promising non linear optical features in natural green dye for optical limiting applications', *Journal of Optics*, 2024.
7. B. Anusha, Rajabhuvarneswari Ariyamuthu, Jeevalatha R, 'Guazuma tomentosa and Abutilon indicum - A novel Mixed green inhibitor for acid corrosion of aluminium alloy', *Journal of Population Therapeutics and Clinical pharmacology* 30(18), 231-247, 2023.
8. B. Anusha, M. Anbucheziyan, R. Sribalan, Srinivasan alias Arunshankar, 'Synergistic effect of TiO₂-rGO nanocomposites with Fenton's reagent for the enhanced photocatalytic degradation of nitrophenols in solar light', *Applied Physics A*, 128, Article no. 411, 2022.
9. B. Anusha, M. Anbucheziyan, R. Sribalan, 'An efficient photocatalytic degradation of nitrophenols using TiO₂ as a heterogeneous photo-Fenton catalyst', *Reaction Kinetics, Mechanisms and Catalysis*, 134, 501-515, 2021.
10. B. Anusha, Jaynthy Chellam, 'Cyanidin 3-O-(6'-Malonylglucoside) as an Inhibitor of Oestrogen Receptor Beta (Er Beta) - An Insilico Approach', *International Journal of Pharmaceutical Research* 13 (1), 4077-4084, 2020.

Books / Book Chapters: Nil

Awards: Nil

Online Courses:

1. Completed 12 weeks NPTEL-AICTE course on Thin Film Technology with Elite + Silver during July- Oct 2025.
2. Completed 12 weeks NPTEL-AICTE course on Materials Design for Electronic, Electromechanical and Optical Functions with Topper during July- Oct 2025.
3. Completed 12 weeks NPTEL-AICTE course on Fundamentals of Electronic Materials and

Fabrication with Elite during July- August 2024.

4. Completed 12 weeks NPTEL-AICTE course on Physics of Materials with Gold + Topper during July- August 2024.
5. Completed 8 weeks NPTEL-AICTE course on Fundamentals of Electronic Device Fabrication with Elite + Silver during July- August 2024.
6. Completed 8 weeks NPTEL-AICTE course on Theory and Practice of Non Destructive Testing with Elite during Jan- March 2024.
7. Completed 12 weeks NPTEL-AICTE course on Techniques on Materials Characterization with Elite during July - October 2023.
8. Completed 8 weeks NPTEL-AICTE course on Introduction to Electromagnetic Theory with Elite during July - Sep 2019.
9. Completed 12 weeks NPTEL-AICTE course on Semiconductors Optoelectronics with Elite + Silver during Jan - Apr 2019.
10. Completed 4 weeks NPTEL-AICTE course on Structural Analysis of Nanomaterials during August - September 2018.
11. Completed NITT - Module 1: Orientation towards Technical Education and Curriculum Aspects
12. Completed NITT - Module 2: Professional Ethics and Sustainability
13. Completed NITT - Module 3: Communication Skills, Modes and Knowledge Dissemination
14. Completed NITT - Module 4: Instructional Planning and Delivery
15. Completed NITT - Module 5: Technology Enabled Learning and Life-Long Self Learning
16. Completed NITT - Module 6: Student Assessment and Evaluation

Completed NITT - Module 7: Creative problem solving, Innovation and Meaningful R & D

17. Completed NITT - Module 8: Institutional Management and Administrative Procedures