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# SAI RAM INSTITUTE OF TECHNOLOGY

An ISO 9001 : 2008 Certified Institution

Sai Leo Nagar, West Tambaram, Chennai - 44. www.sairamit.edu.in

## DEPARTMENT OF PHYSICS

Name : **Dr. B. Anusha**

Designation : Associate Professor

Email : anusha.phy@sairamit.edu.in

Qualification : M.Sc., M.Phil, Ph.D.

Specialization : Physics

Research Interest : Nanocomposites, Crystal Growth, Computational Physics

Experience in years : **Teaching** UG  PG  **Industry**

No. of Workshop/Conferences/  
FDP attended : Workshop  Conferences  FDP

No. of Workshop/Conferences/  
FDP Organized : Workshop  Conferences  FDP



Professional Membership	ISTE, IEEE
Publications	SCIE-3
	ESCI - 1
	UGC Care - 1
Research Funded Projects	Nil
Patents	Nil
Achievements	Achieved 100% Result in Engineering Physics I for , CCE and IT ( 2020-2021)CIVIL B AND CSE A (2016-2017), CIVIL B AND IT B (2014-2015), ECE A ( 2012-2013) Achieved 100% Result in Engineering Physics II for ECE A (2016-2017), CIVILB (2015-2016), CIVIL B (2014-2015)

	<p>Achieved 100% result in Materials Science for MECH B (2017-2018)</p> <p>Achieved 100% Result in Physics for Information Science for IT B (2017-2018).</p> <p>Achieved 100% Result in Physics for Electronic Devices for CCE and ECE B (2017-2018).</p>
Any Other Information	<p>Qualified Tamil Nadu State Level Eligibility Test (SLET 2016) Conducted by Annai Terasa University</p> <p>-</p>

### List of Publications:-

1. 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.
2. B. Anusha, M. Anbuechhiyan, R. Sribalan, 'An efficient photocatalytic degradation of nitrophenols using TiO<sub>2</sub> as a heterogeneous photo-Fenton catalyst', Reaction Kinetics, Mechanisms and Catalysis, 134, 501-515, 2021.
3. B. Anusha, M. Anbuechhiyan, R. Sribalan, Srinivasan alias Arunshankar, 'Synergistic effect of TiO<sub>2</sub>-rGO nanocomposites with Fenton's reagent for the enhanced photocatalytic degradation of nitrophenols in solar light', Applied Physics A, 128, Article no. 411, 2022.
4. C. Deepa, M. Anbuechhiyan, 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.

### Paper Presented in Conference

S.No.	Topic	Conference	Held on Date	Place
1	Controlled Synthesis and Morphological Investigation of TiO <sub>2</sub> Nanostructure	National conference on Advances in Condensed matter Physics	2nd March 2018	Hindustan Institute of Technology & Science
2	Controlled Synthesis and Morphological Investigation of CuO Nanostructure	National Conference on Chemistry Driven Clean Process	7th February 2018	Hindustan Institute of Technology & Science
3	Synthesis of BiVO <sub>4</sub> /TiO <sub>2</sub> nanocomposite and their	International conference on Nanoscience and	1-3 February 2021	SRM Institute of Science and

	photocatalytic performances for the degradation of MB dye	Nanotechnology (ICONN 2021)		
4	Synthesis and Characterization of TiO <sub>2</sub> -rGO nanocomposites for the photocatalytic degradation of Picric acid	International conference on Nanoscience and Nanotechnology (ICONN 2021)	1-3 February 2021	SRM Institute of Science and Technology

### List of Patent : Nil

### Workshop Attended:-

S.No	Workshop on	Held on Date	Place
1.	How to conduct students induction program ( SIP)	20 <sup>th</sup> sep 2021	AICTE, New Delhi through online mode
2.	Smart material Sensor and Energy Devices	25.5.20 to 30.5.20	SSN College of Engineering
4.	The Excitement of College Physics	6th July 2019	VIT,Chennai.
5.	New Engineering Materials and their applications(NSNEMA-2019)	23rd March 2019	Valliammai Engineering College
6	The State Of The Art Analytical Equipment (TPSAE-2019)	1st and 2nd March 2019	Madras Institute of Technology Campus, Anna University
7	Computational Tools in Biomolecular research CTBR19	6th to 8th Feb. 2019	Sathyabama Institute of science and Technology
8	Trends in Materials and Technology (ETMAT-2017)	27 <sup>th</sup> and 28 <sup>th</sup> July 2017	Jeppiar Engineering College
9	Revealing the advances in Material Science	19 <sup>th</sup> and 20th July 2016	Sri Sairam Institute of Technology, Chennai
10	Advancements in Chemical Sciences	18 <sup>th</sup> July 2016	Sri Sairam Institute of Technology, Chennai.
11	Environmental and Sustainable Development (SESD)	3 <sup>rd</sup> June, 2016	SRM University in association with IRD India
12	INUP Familiarization Workshop on nanofabrication Technologies	May 25-27, 2016.	IIT MUMBAI
13	Art of Journal and Thesis Writing	19th Jan 2012	Sri SaiRam Engineering College

## FDP attended

1	2D nanomaterials: Potential & applications through ICT	17.10.22 to 21.10.22	organized by Department of Applied Sciences, NITTTR, Chandigarh at Sathyabama Institute of Science and Technology.
2	Foremost Frontiers of Materials Science	12.9.22 to 20.9.22	Sathyabama Institute of Science and Technol
3	Nanotechnology	24.8.20 to 28.8.20	AICTE Training and Learning (ATAL) Academy at Visveswaraya National Institute of Technology
4	Smart and Nanomaterials'	24.8.20 to 28.8.20	SRM Easwari Engineering College
5	Nanomaterials for energy harvesting and Biomedical applications	18.5.20 to 22.5.20	Godhavari Institute of Engineering and Technology
6	Introduction to Electromagnetic Theory	Sep 2019	NPTEL-AICTE
7	Faculty Development Programme- Semiconductor Optoelectronics	April 2019	NPTEL-AICTE
8	Characterisation of Materials	20.7.2017 to 21.7.2017	Sri Sairam Institute of Technology, Tambaram, Chennai
9	Teaching Excellence in Engineering management Curriculam	20th and 21st June 2016	Sri Sairam Institute of Technology, Tambaram, Chennai & Sri Sairam Institute of Management Studies
10	Electromagnetic field Theory and Transmission lines	25th and 26th June 2015	Sri Sairam Institute of Technology, Tambaram, Chennai
11	A step to Outcome Based Accreditation	4th April 2015	Sri Sairam Institute of Technology, Tambaram, Chennai

## FDP Organized:

.S.No	FDP	Held on Date	Place
1.	Characterisation of Materials	20.7.2017 to 21.7.2017	Sri Sairam Institute of Technology, Tambaram, Chennai

## RESPONSIBILITES AND DUTIES HANDLED

- Department in Charge for Physics

- SCOPE member for Department of Science and Humanities
- SCOPE member for Science Club
- Class teacher and Group Counselor for teachers and students
- Coordinator for conducting Faculty Development Programme
- Co ordinator for Cultural.
- NBA Co Ordinator for Department of Science and Humanities