

Name: Dr. S. RUBY

Designation: Asst. Professor

Department: Physics

Date of Joining: 14.6.2005

Phone with Extn. No: -

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Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
B.Sc.,	Physics	Lady Doak College, Madurai.	2000
M.Sc.,	Physics	The American College, Madurai.	2003
M.Phil.,	Physics	Bharathidasan University, Trichy.	2005
Ph.D.,	Physics	Mother Teresa Women's University, Kodaikanal	2020

Specialisation in Teaching:

Optics, Astrophysics and Solid State Physics

Specialisation in Research:

Nanomaterials

Research Interests:

Nanoscience and Nanomaterials

Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
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Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Project Associate in SLP –Solid Waste Management	September 2015 to till date
Project Associate in SLP – School Extn. Program	2007-2008
One of the Conveners in the College Science Exhibition.	August, 2015.
Convener for SF in PHOBOS	March, 2015

Membership in Professional Bodies:

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Publications:**Articles published in International Journals:**

- ‘Structural Properties and Electrical Conduction Mechanisms In $\text{Bi}_{0.9}\text{Sm}_{0.05}\text{Tb}_{0.05}\text{FeO}_3$ Thin Films Prepared by Hydrothermal Method’ in *Applied Surface Science*, 449 (2018) 10 – 14.
Impact Factor: **4.439**
- ‘Sun-Light Driven Photocatalytic Degradation of Methyl Orange Based on Bismuth Ferrite (BiFeO_3) Heterostructures Composed of Interconnected Nanosheets’ *Journal of Nanoscience and Nanotechnology* Vol. 20, 1–8, 2020.
Impact factor: **1.8**

Articles published in National Journals:

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Books:

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Conference / Seminar Presentations:

Name of the Seminar/Conference/Symposia/Workshop etc.,	Name of the sponsoring Agency	Title of the paper	Institution, Place and Date
International Conference ICONN	Shizuoka University, Japan, National	“Synthesis and characterisation of	SRM University, Chennai, January 28

2019	Chiao University, Taiwan, CSIR, AND DST – SERB, India.	Manganese substituted Bismuth Ferrite by Microwave Assisted Method ”	– 30, 2019
International Conference on Recent Advances in Material Science	NSERB, India, BRNS, Mumbai, TNSCST, Chennai, TANSICHE.	"Study of Optical and Magnetic properties of Cobalt doped BFO nano particles by Microwave assisted method”	National College, Trichy, 4 – 6 of February 2019
National Conference on ‘Recent advanced Materials’ (NCRAM 2018)	BRNS, Mumbai and TNSCST, Chennai.	“Photocatalytic activity of Bismuth Ferrite synthesised by Microwave assisted method”	Thiruvalluvar University College of Arts and Science, Vandavasi, 23-24 February, 2018.
International Conference on Functional Materials ICFM 2017	DST- SERB.	“Synthesis and Characterization of Cobalt doped BFO nano particles by Microwave assisted method”	Thiagarajar College of Arts and Science, Madurai, September 7-8, 2017.
International Conference ICONN 2017	Shizuoka University, Japan, National Chiao University, Taiwan, GNS, Newzeland.	“Structural Properties and Electrical Conduction Mechanisms In $\text{Bi}_{0.9}\text{Sm}_{0.05}\text{Tb}_{0.05}\text{FeO}_3$ Thin Films Prepared by Hydrothermal Method”	SRM University, Chennai, August 9 -11, 2017.
National Seminar on Crystal Growth and Applications"	UGC, Delhi	"Synthesis and Characterization of Pure BFO Nano particles by Microwave assisted Method"	National College, Trichy, 7th of March 2017
National Conference on Emerging Trends in Materials-2017	Mary Matha College of Arts and Science, Periyakulam.	"Synthesis and Characterization of Barium doped BFO nano particles by Microwave assisted method"	Mary Matha College of Arts and Science, Periyakulam, 6th of March 2017

Lectures / Talks given:

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Awards / Fellowships:

College	Name of the award/fellowship	Year
The American College, Madurai.	Richard P. Reiz award	2001-2002

Research activity of the student under guideship

Title	M.Phil/ M.Sc/ B.Sc	Please tick if it is collaborative
Synthesis of Mg doped BFO nanoparticles	M.Sc	
Synthesis of La doped BFO nanoparticles	M.Sc	
Construction of Optical Telescope	M.Sc	
Growth and characterisation of ADP crystal	M.Sc	
Study of magnetic properties of Bismuth Ferrite	M.Sc	
Studying the properties of Strontium substituted BFO	M.Sc	
Construction of Swing Bridge	B.Sc	
Automatic street light using Arduino	B.Sc	
Air Pollution monitor using Arduino	B.Sc	

Doctoral Students**Completed:**

Name of the student	Title of the thesis
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Ongoing:

Name of the student	Title of the thesis
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UGC Sponsored Major Projects:

Title	Year of Award	Amount Awarded	Status of the project- Completed /Ongoing	Co-investigator, if any
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UGC Sponsored Minor Project

Title	Year of Award	Amount Awarded	Status of the project- Completed /Ongoing	Co-investigator, if any
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Overseas Academic Visits:

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Other Activities / Academic Credentials:

- Served and serving as an academic advisor for M.Sc., and B.Sc., students of Physics department.
- Served as a staff incharge for departmental throw ball match, 2018-19.
- Served as a member in decoration committee, hall arrangement committee and Certificate committee in department and in college celebration programmes.