

NAME	Dr. RINTU MARY SEBASTIAN	
DESIGNATION	ASSISTANT PROFESSOR	
QUALIFICATION	M.Sc, M.Phil., Ph.D, B.Ed.	
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TEACHING INTERESTS
Optics, Quantum Mechanics, Mathematical Physics

RESEARCH AREAS
Nano Magnetic Materials, Nonlinear Optics

ACADEMIC/PROFESSIONAL QUALIFICATIONS

NAME OF THE PROGRAMME	INSTITUTION/UNIVERSITY	YEAR OF PASSING
Ph.D (Physics)	Maharaja's College Ernakulam / M.G University	2017
B.Ed. (Physical Science)	Mount Carmel College of Teacher Education, Kottayam / M. G University	2009
M. Phil (Physics)	Department of Physics, Kerala University Campus, Karyavattom / Kerala University	2007
M.Sc. (Physics)	Department of Physics, Kerala University Campus, Karyavattom / Kerala University	2006
B.Sc. (Physics)	S.D College Kanjirapally / MG University	2004
Plus Two (Science)	St. Josephs School, Mundakayam / CBSE	2001
S. S. L. C	St. Josephs Girls High School, Kanjirapally	1999

CAREER HISTORY/TEACHING EXPERIENCE

DESIGNATION	INSTITUTION/UNIVERSITY	YEAR OF SERVICE
Assistant professor	MET's School of Engineering, Mala	3 years
Assistant Professor	Toc H Institute of Science and Technology, Arakunam	1 year

M.Phil THESIS

SL.NO	TITLE	GUIDE NAME	INSTITUTION	MONTH/YEAR
1	Nonlinear Responses of Ponceau S and Aniline Blue Dyes under CW Laser Illumination	Dr. C. I Muneera	Kerala University Campus, Karyavattom	May, 2007

Ph.D. THESIS

SL.NO	TITLE	GUIDE NAME	INSTITUTION	MONTH/YEAR
1	Nano Zinc Ferrites and Characterizations on their Optical Limiting and Anti algal Properties	Dr. E M Mohammed	Maharaja's College Ernakulam	Feb, 2017

AWARDS/ACHIEVEMENTS/OTHERS*

SL.NO.	NAME OF AWARDS/ACHIEVEMENTS/OTHERS	MONTH/YEAR
1	Have qualified the State Eligibility Test	2008
2	Second rank holder in 'Certificate Course in Counseling' conducted by MG University	2008

JOURNAL PUBLICATIONS

SL.NO.	TITLE	NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS	ISSN No: /ISBN No:	MONTH / YEAR
1.	Structural and magnetic characterization of zinc ferrite nanoparticles	Asian Journal of Physics, 7,5, 305 - 310	0971 - 3093	2018
2.	CeO ₂ /CoPc Nano composite for Potential Applications in Electronics	Journal of Electronic Materials	0361 -5235	2017
3.	Structural and electrical studies of Gd ³⁺ substituted zinc ferrite nano particles	Ferroelectrics, 504:1, 53-63,	1563 - 5112	2016
4.	Effect of Gd ³⁺ substitution on the structural and electrical properties of Mg _{0.75} Zn _{0.25} Fe ₂ O ₄ nanoparticles	Indian Journal of Physics, 1-6	0974 - 9845	2016
5.	Study of optical limiting behavior in iron substituted zinc chromite	Optik, 127 ,7967 – 7972	0030 - 4026	2016
6.	Nonlinear optical characteristics of magnesium – zinc nano composites	Indian Journal of Applied Research 6(1)	2249 – 555X	2016
7.	Synthesis and anti-algal effect of zinc ferrite nanoparticles	Macromol. Symp., 361, 20–23	1521 - 3900	2016
8.	Effect of Zinc Ferrite Nanoparticles on the Growth of Chlorella pyrenoidosa	Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5(5), 364 -371	0975 - 8585	2016

9.	Dielectric behavior and AC conductivity of Mg ²⁺ doped zinc ferrite nanoparticles synthesized by Sol–Gel technique	Ferroelectrics, 481:1, 48-56	1563 - 5112	2015
10.	Effect of sintering temperature on the structural magnetic and electrical properties of zinc ferrite samples	J Nanomater Mol Nanotechnol, 4:2	2324 - 8777	2015
11.	Nano phase α -silver tungstate for potential applications in light emitting diodes and gate dielectrics	Advanced Science, Engineering and Medicine, Vol 7, 498 – 505	2164 - 6635	2015
12.	Effect of dysprosium substitution on structural and magnetic properties of cobalt ferrite nanoparticles	(IJESIT), Volume 4, Issue 5	2319 - 5967	2015
13.	Dielectric Properties and Conductivity of (ZnO/CdO) Mixed Oxide Nanocomposite	Ferroelectrics, 474:1, 144-155	1563 - 5112	2015
14.	Structural and Dielectric Studies of Cerium Substituted Nickel Ferrite Nano Particle	The International Journal of Engineering and Science (IJES), Volume 4, Issue 5, PP.33-37	2319 - 1813	2015
15.	Structural and Magnetic properties of Chromium doped Zinc Ferrite	AIP Conference Proceedings, 1576, 91	978 – 0 - 7354 - 1206 -4	2014
16.	Structural and Antibacterial Properties of Silver Substituted Cobalt Ferrite Nanoparticles	Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5(5), 364 -371	0975 – 8585	2014

17.	Structural and Dielectric Studies of Cr ³⁺ doped ZnFe ₂ O ₄ Nanoparticles	Nano Studies, 8, 121-130	1987 - 8826	2013
18.	Influence of Cr ³⁺ ion substitution on DC and AC electrical properties of zinc ferrite nanoparticles	International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 4, 512 – 520	2319-5967	2013

CONFERENCE PUBLICATIONS

SL.NO.	TITLE	NAME OF CONFERENCE	VENUE, MONTH / YEAR
1.	Gadolinium Induced changes on the properties of Magnesium Zinc mixed Ferrite nanoparticles	NSNP – 2019, KEC Mannanam	Department of Physics, Kuriakose Elias college, Mannanam, Kottayam, 04 – 05 January 2019
2.	Dielectric Studies of Nanocrystalline Calcium Tungstate, Advanced Nanomaterials: Synthesis and Applications	International Conference <i>NANO-15</i>	Centre for Nano science and technology, K. S Rangasamy College of Technology, Dec. 2015
3.	Structural and magnetic characterization of Gd ³⁺ doped Co-Zn mixed ferrite nanoparticles	International Conference <i>NANO-15</i>	Centre for Nano science and technology, K. S Rangasamy College of Technology, Dec. 2015
4.	Structural Properties of Gadolinium Doped Zinc Ferrite	National Seminar on Nanostructured materials (NSM2014),	Department of Chemistry NSS Hindu College Changanacherry, Kottayam, , (ISBN:978 – 93 – 5174 – 895 – 3), August 12&13, (2014)
5.	Rietveld Analysis of X – Ray diffraction pattern,	UGC sponsored national workshop on computational chemistry and its applications	Department of physics St Xavier's college Aluva, 2014

6.	Structural and Dielectric Studies of Cr ³⁺ doped ZnFe ₂ O ₄ Nanoparticles 318 – 328 (2013).	ICANM 2013: International Conference & Exhibition on Advanced and Nano Materials Quebec, Canada,	International Academy of Energy, Minerals & Materials, Canada, K4A 4Z1 August 2013
7.	Structural and Magnetic properties of zinc ferrite and cobalt ferrite synthesized by sol-gel method	National seminar on Nano science and Technology,	Dept. of Science and Humanities, SNGCE, 15th & 16th February (2013)
8.	Effect of sintering temperature on the structural and dielectric property of zinc ferrite nanoparticles	National Seminar on recent Trends in Conducting Polymers and Polymer Nano Structures	Aquinas College, Edacochin. 29th&30th (2013)
9.	Effect of Silver Substitution on Structural and Magnetic Properties of Nanocrystalline Cobalt Ferrite	National Seminar on recent Trends in Conducting Polymers and Polymer Nano Structures	Aquinas College, Edacochin, 29th&30th (2013).

SEMINARS/CONFERENCES/WORKSHOPS PRESENTED /ATTENDED#

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE	LEVEL *
1.	International Seminar on Recent Trends in Nano Science and Nanophotonics	Department of Physics, Kuriakose Elias College, Mannanam, Kottayam, Kerala	Kuriakose Elias College, Mannanam	International
2.	National workshop on electronic experiments	Academy of Physics Teachers	UC College Aluva, 19 th and 20 th May 2018	National
3.	National conference on current trends in material Sciences (CTMS – 07)	Dept. of Physics, Christian College, Chengannur	Christian College, Chengannur 25 th – 27 th March 2007	National
4.	State Level seminar on Recent Developments in Science and Technology	Department of Physics BCM College Kottayam,	BCM College Kottayam, and 26 th – 28 th February 2007	State

5.	National Conference on recent trends in Optoelectronics and Laser Technology (NCOL 2007)	Department of Optoelectronics, University of Kerala, Karyavattom, Thiruvananthapuram	Department of Optoelectronics, University of Kerala, Karyavattom, 9th – 11th April, 2007	National
6.	Third International Conference on Polymer Processing and Characterization (ICPPC – 2014)	Department of chemistry, MG University	Department of chemistry, MG University, 11-13 October (2014).	International
7.	Current Trends in Material Science	Aquinas College, Edachira	Aquinas College on the 13th and 14th August (2014)	National
8.	Current Trends in Material Science	Aquinas College, Edacochin	Department of Physics Aquinas college August 29-30, 2013	National
9.	National Seminar on Nano science and technology	Sree Narayan Gurukulam College of Engineering, Kolenchery, Ernakulam,	Sree Narayan Gurukulam College of Engineering, Kolenchery, Ernakulam, February 15 – 16, (2013).	National
10.	National Seminar on nanotechnology	Department of Physics, Maharajas College	Maharajas College, Ernakulam, Jan 22-24 (2013).	National
11.	<i>IIMMN 2013</i>	Department of Physics M G University, Kottayam	M G University, Kottayam, Jan 31-Feb 1 (2013)	International

	<i>OMTAT</i>	Department of Physics, Cochin University	Department of Physics, Cochin University, Kochi, Jan.3- 5, (2013)	International
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POSITIONS HELD IN COLLEGE

- **Value Education Program – Instructor (2017 – 2018)**
- **Union Advisor (2018 – 2109)**
- **Sawayam Program – College level Co-ordinator (2018 – 2020)**
- **Member of Admission Cell (2018 – 2020)**
- **Walk With a Scholar – Mentor (2018 – 2020)**
- **Energy conservation club – Co-ordinator (2019 – 2020)**