



# SRM Valliammai Engineering College


(An Autonomous Institution)

SRM Nagar, Kattankulathur, Chengalpattu District Tamil Nadu 603203

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## Department of Physics

### Personal Details

Name :	Mrs.Ramya Rajan.M.P		
Designation :	Assistant Professor(O.G)		
Educational Qualification :	M.Sc.,M.Phil., B.Ed.,( Ph.D)		
Experience:	14 yrs. 11 months		
Area of Specialization :	Spectroscopy		
Date of Joining :	13/07/2015		
Email ID :	<a href="mailto:ramyarajanmp@gmail.com">ramyarajanmp@gmail.com</a> <a href="mailto:ramyarajanmp.physics@valliammai.co.in">ramyarajanmp.physics@valliammai.co.in</a>		
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### Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.Sc.	Physics	Mahatma Gandhi Govt., Arts College, Pondicherry University	1999
2	M.Sc.	Physics	K.M.C.P.G.S,Pondicherry University	2001
3	M.Phil.	Physics	K.M.C.P.G.S,Pondicherry University	2002
4	B.Ed.	Physical Science	T.I.M Training College, Calicut University	2006

### Professional Society Memberships

1. Indian Science Congress Association
2. Indian Association of Crystal Growth
3. Indian Society for Technical Education

### Publication Details

#### Journals:

- “Comparative study of Dielectric behaviour of binary mixtures of ethylene glycol with benzene and ethanol” Golden research Thoughts, Volume.1, Issue1, July 2011pp1-4 ISSN No-2031-5063. G.Meenakshi, T.Beena, **Ramya Rajan M.P.**, and L.Sudha
- “Ultrasonic studies of molecular interaction of Diazabicyclo 2,2,2- Octane in different solvents at 303 K.” Indian Journal of Research, 2013, 2 (4), 312, **RamyaRajan M.P.**, Dhamodharan S and Udaya Lakshmi K.
- “Dielectric and Ultrasonic Studies of the Drug Oxytetracycline Hydrochloride in Ethanol at 303 K”. Indian Journal of Research, Volume: 2 Issue: 8 Aug 2013 ISSN - 2250-1991- Beena and **Ramya Rajan.**

- “Dielectric response of some polar liquids in non-polar solvent benzene at microwave frequency in”, Der Pharma Chemica, 2014, 6(2):375-377, **Ramya Rajan** and Mary Anjalin.
- “Synthesis and Characterization of CNT/Metal nanoparticles/Polymer Nano composite” F. Mary Anjalin and **Ramya Rajan**, Der Pharma Chemica, 2014, 6(3):24-26.
- “Synthesis, characterization, in silico studies and in vitro biological evaluation of isoniazid -hydrazone complexes” Journal of Molecular Structure (IF 3.196) 1216(2020)128297 April 2020 **Ramya Rajan M. P**, R.Rathika, R.NithyaBalaji and R.Sribalan
- “Synthesis, characterization, in vitro and in silico studies of bis-hydrazone complexes derived from terephthalic dihydrazide” **Ramya Rajan.M.P**, Ramaswamy Rathikha, Rajendran Nithyabalaji, Rajendran Sribalan, Journal of Molecular structure ( IF 3.196 ) Volume 1242, 15 October 2021, 130683

#### Conferences / Workshops :

- Presented a paper in the UGC National Seminar on Chemical Physics (NSCP-2003) at Annamalai University, Tamil Nadu on March 2003.
- Participated in the Awareness Workshop on “The Facilities of UGC – DAE Consortium for Scientific Research” during Sep-16<sup>th</sup> & 17<sup>th</sup> 2009 held at CENTRE FOR HIGH PRESSURE RESEARCH, School of Physics, Bharathidasan University, Trichirapalli, Tamil Nadu.
- Presented a paper in DRDO Sponsored National Conference on ‘Recent Advances in Crystal Growth and Nanoscience’ (NCRACGN -2010) at Kongu Engineering College Erode, Tamil Nadu during March 2010.
- Presented a paper in the International Conference on Waves and Materials Science on 23<sup>rd</sup> August 2010, at St.Joseph’s College of Arts and Science, Caddalore , TamilNadu.
- Presented a paper in the National Conference on New Renaissance in Chemical Research organized by the Department of Chemistry, SRM University, Ramapuram, Chennai-89 on 4<sup>th</sup> march 2011.
- Successfully completed in the Mission 10X workshop (ISTE) conducted at SRM University at Kattangulathur-Chennai from 28<sup>th</sup> March 2011 to 1<sup>st</sup> April 2011.
- Participated in a Mission 10X Advanced workshop (ISTE) on “High impact teaching skills “conducted at SRM University at Kattangulathur-Chennai from 28<sup>th</sup> and 29<sup>th</sup> March 2011.
- Participated in one day workshop on “Atom Probe microscopy” at IIT Madras, Chennai on Jan 2012.
- Presented a paper titled “Dielectric response of some polar liquids in non-polar solvent benzene at microwave frequency” in the National Conference on Emerging Trends in Science and Humanities organized by Saveetha Engineering College, Thandalam on 9<sup>th</sup> March 2012
- Participated and presented paper in the conferences: ICOPVS’13, Organized by Department of Physics, Bishop Moore College Mavellikkara, Kerala on Aug 6-9,2013 "Acoustical studies of Lorazepam in ethanol at 303K".
- Presented a paper in “National Conference on Hierarchically Structured Materials” Organized by Department of Physics, SRM University Ramapuram on 24<sup>th</sup> and 25<sup>th</sup> Jan 2013.
- Presented a paper in “2nd National Conference on Hierarchically Structured Materials” Organized by Department of Physics SRM University Ramapuram on 24<sup>th</sup> and 25<sup>th</sup> March 2014.
- Presented a paper in International conference on advances in new materials (ICAN) -2014 organized by Department of Inorganic Chemistry, University of Madras during 20<sup>th</sup>&21<sup>st</sup> June 2014.

- Participated in the National Conference on Advanced Materials and its applications” organized by the Department of Physics, Hindustan University on 29<sup>th</sup> and 30 Jan 2015 in association with Materials Research Society of India, Chennai Chapter and Indian Association for Crystal Growth.
- Presented a paper in “3rd National Conference on Hierarchically Structured Materials” Organized by Department of Physics SRM University Ramapuram on 25th and 26 th Feb 2015.
- Presented a paper titled “Molecular interaction studies of some potentially important drugs on ethanol at 303K using Ultrasonic techniques” in the DBT, Govt of India sponsored 4<sup>th</sup> National conference on Hierarchically structured Materials (NCHM 2016) held on 4<sup>th</sup> and 5<sup>th</sup> March 2016 organized by the Department of Physics, SRM University, Ramapuram.
- Attended Two days’ Workshop on “Materials characterization techniques” organized by the Department of Physics, SRM University, Ramapuram during 2<sup>nd</sup> and 3<sup>rd</sup> September 2016.
- Participated in the five days’ workshop on ‘Modelling and Simulation in Material Science and Engineering (MSME 2018) with hands on session organized by Computational Material Science group, Department of Physics during 18-22 June 2018’ at Sathyabama Institute of Science and Technology, Chennai.
- Presented a research paper “Synthesis characterization and biological evaluation of ethylfebuxostat-isoniazid complex” in the International Conference on Physics of advanced materials and molecules (ICPAMM-2020) on 30-31 January 2020 organized by the Department of Physics Dr.Ambedkar Government Arts college, Vyasarpadi Chennai.(Proceeding page No 41).
- Participated in the one week online workshop cum Faculty Development Program on "Quality Engineering and Technological Advances in Materials and Devices" 8th March to 22<sup>nd</sup> March 2021.
- Participated in the University Distinguished Lecture titled "Science and Technology for Health life and Planet" delivered by Prof. Seeram Ramakrishna ,FREng Everest Chair, National University of Singapore and organized by SRM University-AP held on 20<sup>th</sup> March 2021.
- Participated in the QIP online Course on "Materials Characterization Techniques" during 22<sup>nd</sup> -27<sup>th</sup> March 2021 at Department of MEMS ,IIT Indore.
- Presented a paper in the Virtual International Conference on Hierarchically Structured Materials - 2021 organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 8th to 10th April 2021.
- Participated in a six-day FDP on Engineering Physics -PH8151 organized by Indira Ganesan College of Engineering, Trichy from 14th to 19th June 2021.

**Online Courses Attended:**

Sl.No	Name of the course	Duration	Percentage	Remarks
1	<b>NPTEL-Fundamentals of Optical and Scanning Electron Microscopy</b>	<b>Jan-March 2016</b> <b>-20 hours course</b>	<b>74%</b>	<b>Topper</b>
2	<b>NPTEL-Fundamentals of X-ray diffraction and Transmission Electron Microscopy</b>	July to Sept 2016 <b>- 20 hours course</b>	<b>84%</b>	Elite certificate
3	<b>Center for Development of Technical Education, IIT-Kanpur-</b> Learning Physics through simple experiments-	20 <sup>th</sup> Sept 2016 to 20 Nov 2016 <b>2 months course</b>	-	<b>Completed</b>
4	<b>NPTEL- Laser: Fundamentals and Applications</b>	Aug-Oct 2017- <b>8 Week course</b>	<b>90%</b>	Elite +Gold certificate
5	<b>Center for Development of Technical Education, IIT-Kanpur-</b> Physics for Semiconductors	15 <sup>th</sup> Aug 2017 to 20 Nov 2017 <b>-3 months course</b>	-	<b>Completed</b>
6	<b>NPTEL-“Defects in crystalline Solids (Part-I)”</b>	Aug-Sept 2018 <b>8-week course.</b>	<b>83%</b>	Elite certificate
7	<b>NPTEL(FDP)- An introduction to materials: Nature and properties: Part -1 Structure of materials</b>	Aug-Oct 2019 <b>8-week course.</b>	<b>61%</b>	Elite certificate
8	<b>AICTE Training And Learning (ATAL) Academy FDP on ‘Novel materials-Advances and Applications’ organized by NIT Raipur</b>	24 <sup>th</sup> September 2021 to 28 <sup>th</sup> September 2021	-	<b>Completed</b>
9	<b>AICTE Training And Learning (ATAL) Academy Online Elementary FDP on ‘Outcome based curriculum and examination reforms’ organized by B.V.V.S. Polytechnic (autonomous), Bagalkot .</b>	25 <sup>th</sup> October 2021 to 29 <sup>th</sup> October 2021.	-	<b>Completed</b>
10	<b>AICTE-Inculcating Universal Human Values (UHV) in Technical education FDP-Student Induction</b>	4 <sup>th</sup> October, 2021 to 8 <sup>th</sup> October, 2021.	-	<b>Completed</b>

### Other Particulars

- *Books Published:*-A text book of Physics for Engineers, K. Udayalakshmi, M.P. RamyaRajan and P. Shankar. (2012), Sri Krishna Publications, Chennai.
- Acted as Judge for Science Exhibition at Sreevatsa Viswanathan Vivekananda Vidyalaya Jr. College on 7-7-2017.
- NCC – C certificate holder -Army Wing (Junior Under Officer).