



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Dr.S.Vidhya
Designation : Assistant Professor
Department : Physics
Qualification : M.Sc., M.Phil., PGDCA., Ph.D.
Experience : **Teaching:28** **Research: Nil**
Area of Specialization(s) : Crystal Growth and Characterization
Email (Official ID) : vidhyas@sigc.edu
Aadhar No : 3786 2923 0387

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Physics	National College, Tiruchirapalli	2016
M.Phil	Physics	Seethalakshmi Ramasamy College	2003
M.Sc	Physics	Govt Arts College for Men, Kumbakonam	1991
B.Sc	Physics	Kundavai Nachiar Government Arts College, Tanjore	1989

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution/ University/Agency Name	Year
PGDCA	Computer applications, C and Java	Shrimati Indira Gandhi College ,Tiruchirapalli	1999
certification	Basics of Python	Infosys	Dec 11,2024
certification	Programming fundamentals using Python -Science graduates	Infosys	2024

Research Publications (Indexed)

International

1. R.G. Vidhya, R. Ramasamy, L. Vijayalakshmi, *Growth and Characterization of Manganese Doped Diammonium Hydrogen Phosphate Crystal*. International Journal of New Innovations, Vol. 1, Issue 4, (2012) 421-422.
2. R.G. Vidhya, R. Ramasamy, L. Vijayalakshmi, *Optical Characterization of Gel Grown Zinc Tartrate Crystal*. International Journal of Physics And Research (IJPR), Vol. 3, Issue 3, Aug 2013, 97-100.
3. R.G. Vidhya, R. Ramasamy, L. Vijayalakshmi, *Effect of Manganese on Some Tartrate Crystals* Asian Academic Research Journal of Multidisciplinary, Vol. 1, Issue 17, January 2014, 298-306.
4. R.G.Vidhya,Dr.R.Ramasamy,Dr. L.Vijayalakshmi, International Journal of Mathematics And Physical Sciences Research, , ISSN 2348-05736, <http://www.researchpublish.com> Structural ,Optical and Thermal Characterization Of Calcium Tartrate Crystal Grown Under The Influence Of Magnetic Field Vol3,ISSUE1, Apr-Sep2015, PP(9-15).Impactfactor-6.946, <http://www.researchpublish.com/journal/IJMPSR/ISSUE-1-April-2015-Septembr-2015/15>
5. R.G. Vidhya, R. Ramasamy, L. Vijayalakshmi, Role Of Magnetic Field On The Optical, Thermal And Structural Characterization Of Strontium Tartrate Trihydrate Crystal *International Journal Of Optical Sciences* Vol.2, Issue1, pp: (14-24), Jan-Jun 2016 .

6. R.G.Vidhya,Dr.R.Ramasamy,Dr. L.Vijayalakshmi International Journal of Scientific Research And Reviews, ISSN 2279-0543,<http://www.ijrsr.org> Effect Of Magnetic Field On The Structural And Thermal Properties Of Manganese Tartrate Dihydrate Crystal Vol 7,ISSUE 4, Oct-Dec2018,PP (1944-1953) .Impact factor-6.946, R.G. Vidhya et al, IJSRR 2018,7(4),1944-1953
7. R.G.Vidhya,Dr.R.Ramasamy,Dr. L.Vijayalakshmi International Journal of Recent Scientific Research(IJSRR) ISSN:0976-3031,<http://www.recentscientific.com> Comparative Analysis On Optical, Thermal And Structural Characterization Of Barium Tartrate Crystal Grown In The Presence And Absence Of Magnetic Field Vol.9,Issue-(12A),PP.29832-29837.(DEC-2018) UGC,GoogleScholar IMPACT FACTOR-7.383,<http://www.recentscientific.com/comparative-analysis-optical-thermal-and-structural-characterization-barium-tartrate-crystal-grown-p>
8. R.G.Vidhya,Dr.R.Ramasamy,Dr. L.Vijayalakshmi International journal of research and analytical reviews ISSN 2348-1269,<http://www.ijrar.org>,Growth And Characterization Of Potassium Permanganate Tartaric Acid Mixed Crystal vol 5,issue 4,Dec2018,pp997-1011 UGC,GoogleScholar IMPACT FACTOR-5.75, <http://www.ijrar.org/viewfull.php?&p id=IJRAR1944120>

National

Book Publications

1. chapters contributed in "Engineering Physics "published by WILEY publications,ISBN 978-81-265-2141-8
2. chapter contributed in "Materials for Sustainable Energy Storage at Nano Scale " by Taylor and Francis publications

Presentations in Conference

1. Participated and presented paper in National Seminar on Advances in materials science NSAMS – 2009 March 16 – 17, 2009, Manonmaniam Sundaranar University, Tirunelveli sponsored by TNS Council of Higher Education.
2. Participated and presented paper in National Conference on Recent Trends in Crystal growth,Thin films and Nano – Structure Materials 5th and 6th Aug 2009, Adithnar College of Arts And Science Tiruchendur. (UGC Sponsered).
3. Participated and presented paper in Recent Trends in Advanced Energy Materials DRDO (UGC – SAP Supported) Alagappa University March 10 – 11, 2010.
4. Participated and presented paper in DRDO Sponsered Recent Recent Advances in Crystal growth and Nano Science 26th and 27th March 2010 Kongu Engineering College, Perundurai, Erode.

5. Participated and presented paper in National Conference on Perspectives in Laser, Optics, Spectroscopy and Nano Science 14th Feb 2011. (UGC Sponsored) Bishop Heber College, Trichy.
6. Participated and presented paper in UGC sponsored seminar on Recent trends in Crystal growth and Nano Materials, 15 – 17 March 2012, conducted by National College (Autonomous), Trichy in Association with Indian Association for Crystal growth
7. Attended UGC sponsored conference in Recent trends in Crystal growth and Nano Materials 13 - 15 March 2013 National College (Autonomous), Trichy, in Association with Indian Association for Crystal growth
8. Participated and presented paper in UGC sponsored seminar on Recent trends in Crystal growth and Nano Materials, 15 – 17 March 2012, conducted by National College (Autonomous), Trichy in Association with Indian Association for Crystal growth
9. Participated and presented paper in the International Conference on Recent Advancements in Spectroscopy (ICRAS-2023), 05.10 2023 to 06.10 2023 , conducted by National College (Autonomous), Trichy in Association with Indian Spectro Physics Association, Chennai

Participation in Conference

International

1. Participated and presented paper in Recent Trends in Advanced Energy Materials DRDO (UGC – SAP Supported) Alagappa University March 10 – 11, 2010.
2. Participated and presented paper in DRDO Sponsered Recent Recent Advances in Crystal growth and Nano Science 26th and 27th March 2010 Kongu Engineering College, Perundurai, Erode.
3. Attended UGC sponsored conference in Recent trends in Crystal growth and Nano Materials 13 - 15 March 2013 National College (Autonomous), Trichy, in Association with Indian Association for Crystal growth.

National

1. Participated and presented paper in National Conference on Recent Trends in Crystal growth, Thin films and Nano – Structure Materials 5th and 6th Aug 2009, Adithnar College of Arts And Science Tiruchendur. (UGC Sponsered).
2. Participated and presented paper in National Conference on Perspectives in Laser, Optics, Spectroscopy and Nano Science 14th Feb 2011. (UGC Sponsored) Bishop Heber College, Trichy.

Participation in Seminars

1. Participated and presented paper in National Seminar on Advances in materials science NSAMS – 2009 March 16 – 17, 2009, Manonmaniam Sundaranar University, Tirunelveli sponsored by TNS Council of Higher Education.
2. Participated and presented paper in UGC sponsored seminar on Recent trends in Crystal growth and Nano Materials, 15 – 17 March 2012, conducted by National College (Autonomous), Trichy in Association with Indian Association for Crystal growth
3. Attended an International Seminar on Crystalline Materials and Optoelectronic Devices 03 Feb 2014 conducted at Jamal Mohamed College, Thiruchirapalli

Participation in Workshop

1. Attended workshop on Recent trends in Materials Research, 21 -22, Dec 2012 NIT, Trichy.
2. Attended workshop on SEM and X – ray diffraction Department of Material Science and Engineering, CARE School of Engineering, 28th Feb and 1st March 2013.
3. Attended the workshop on Recent Advances in materials and its impact 20th Dec 2013 at Srimat Andavan Arts and Science College.
4. Attended the Workshop on Elemental Compound and Phase analysis by powder X – ray diffraction 19-20th Sept 2014, NIT, Trichy.
5. Materials technology advancement in current scenario-----one week workshop-----Sathyabama institute of science and technology from 04 to 20 July 2020.
6. Attended one week workshop on “ Materials Technology Advancement in Current Scenario “ organised by Sathyabama institute of Science and Technology from 4th to 10th July 2020
7. Participated in “workshop on computational physics with python”, an intensive 2-day course for physics teacher and researchers on 29.09.2022--30.09.2022 organized by Department of Physics Bharathidasan University, Tiruchirappalli 620024.
8. Participated in the “SPARC online workshop on CO₂ refrigeration systems: Fundamentals, Advancements and Applications” jointly organized by IIT , Chennai IISc Bengaluru and NTNU Norway from 10/10/2022 to 14/10/2022.
9. Attended One day Work shop on “Elucidation Chemical structures and Quantification crystalline phase formation “conducted by VIT CHENNAI on 06.06.2023

Participation in Orientation Programme / Short Term Courses

1. Attended three days training programme on e-LITERACY conducted by ICT Academy of Tamilnadu and Bharathidasan University, 14 – 16 July 2011 at BDU, Trichy.
2. One Day Training Cum Orientation Programme conducted by Department of English and Foreign Languages, and Department of Linguistics, Bharathiar University, Coimbatore in association with TANSCHÉ on 30 th Sep 2020.
3. Participated in the power seminar webinar on the theme SURVIVAL OR HAPPINESS Conducted by ICT Academy On 15 Jan 2021 (10:00 am - 11:00 am).
4. Attended Statewide Data Science bootcamp conducted by InLustro from 1st March to 5th March 2021
5. Attended NEP Orientation and Sanitization Programme organized by UGC Malaviya Mission Teacher Training Centre from 18.03.2023 to 27.03.2023
6. Has undergone innovation ambassador training Foundation level conducted by MoE's innovation cell and AICTE during the IIC calender year 2021-2022
7. Has undergone innovation ambassador training Advanced level conducted by MoE's innovation cell and AICTE during the IIC calender year 2021-2022
8. Participated in IP awareness training programme under National Intellectual Properties Awareness Mission on April 2023
9. Has undergone innovation ambassador training re-skilling conducted by MoE's innovation cell and AICTE during the IIC calender year 2024-2025
10. Participated in masterclass series under IP Utsav conducted by MoE's innovation cell and AICTE from 21 st April to 26 th April 2025

Participation in Faculty Development Programme

1. participated in the virtual Faculty Development Programme on “Mobility in the Noble Profession” conducted on 23rd November 2020 (Monday). Certificate ID PWSG1S-CE000087.
2. Participated on three day FDP on “ Role of Critical Thinking in Physical Sciences and its Applications “conducted by Srinivasan College of Arts and Sciece,Perambalur,from 2nd July to 4Th July 2021
3. Attended Six day FDP on “ Aligning With The New Educational Era “ conducted from 21.02.2022 to 26.02.2022 conducted by Primax foundation
4. Attended Five day FDP on “Theoritical And Experimental Physics“ conducted by VIT CHENNAI from 29 th May to 02nd June 2023

5. Attended One Week FDP On “From Research to Publications” conducted by Adhiyaman college, Krishnagiri from 04.09.2023 to 11.09.2023
6. Attended five days FDP on “Influence AI in teaching and Research “conducted by Hindustan college of arts and science Coimbatore from 04.09.2023 to 09.09.2023
7. Attended five days FDP on “ Redefining Research skills “ from April 1 to April 5 ,2024

Conference / Seminar / Workshop Organized

Received Rs 20,000 as Principal Investigator under Popularisation of Science scheme for conducting two days training programme “PCB design and fabrication” sanctioned by TNSCST and National Council for Science & Technology, New Delhi.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

1. Acted as a Resource Person in workshop on “Critical Thinking and Innovative Design” by Holy Cross College (Autonomous) on 09.01.2023

Recognition National / International

Nature of Recognition	Organization / Institution	Year
-Evaluator	MoE and AICTE	2025