

Staff Profile

1. Name : **Dr. S. ANAND**
2. Gender : Male
3. Age as on 01.04.2019 & D.O.B : 40 & 05.07.1978
4. Educational Qualifications : M. Sc., M. Phil., Ph.D.,



S. No.	Degree	College / University	Year of passing	Subjects	Grade/ Percentage
1	Ph.D.,	Bharathidasan University	2019	Physics	-
2	M.Phil.,	Pondicherry University	2002	Physics	7.97 Out of 10 points
3	M.Sc.,	Govt. Arts College (Autonomous), Kumbakonam – 612 001	2001	Physics	76.81%
4	B.Sc.,	Govt. Arts College (Autonomous), Kumbakonam – 612 001.	1999	Physics	67.00%

5. Total Teaching Experience as on 01.04.2019

Sl. No.	Name of the Institution	From	To	YY//MM/DD
1	M. R. Govt. Arts College, Mannargudi – 614 001.	09.09.2002	30.11.2008	06/02/21
2	Govt. Arts College (Autonomous), Kumbakonam – 612 001.	03.12.2008	22.09.2009	00/09/19
3	A.V.C. College (Autonomous), Mannampandal – 612 001.	23.09.2009	Till Date	09/07/00

6. Total Teaching Experience at A.V.C. College (specify SF/Aided) as on 01.04.2019: **SF**

Sl. No.	Institution	From	To	Subjects Taught	Remarks
1	Self financing	23.09.2009	Till Date	Physics	-

7. Orientations / Refresher courses attended : Total 1

Sl. No.	O/R	Title of the course	From	To	Name of the Institution and Place
1.	O	IQAC	02.09.2010	07.09.2010	A.V.C. College (Autonomous), Mannampandal – 609 305.

8. Conferences attended : Number 6

1. Attended “National level Conference on Recent Trends in Materials Science” sponsored by UGC, New Delhi at A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai from 08.03.2012 to 09.03.2012.
2. Attended “National Level Conference on Recent Advances in Molecular Spectroscopy” organized by Department of Physics –TAC & KMCPGS, Puducherry on 14th Sep.2014.
3. Presented a paper entitled “Crystal growth, Experimental investigation [FT – IR, FT – Raman] and Theoretical (HF and DFT calculations) analysis on Bis(thiourea) Nickel Fluoride” in the National conference on Recent Advances in Molecular Spectroscopy organized by Department of Physics –TAC & KMCPGS, Puducherry on 14th Sep.2014.
4. Presented a paper entitled “Crystal growth and characterization, FT – IR and FT – Raman analysis on Bis(thiourea) Nickel Bromide using computational calculations” in the National conference on recent advances in Molecular Spectroscopy organized by Department of Physics –TAC & KMCPGS, Puducherry on 14th Sep.2014.
5. Presented a paper entitled “Molecular vibrational investigation [FT – IR, FT – Raman, UV – Visible and NMR] on Bis(thiourea) Nickel Chloride using HF and DFT calculations” in the National conference on recent advances in Molecular Spectroscopy organized by Department of Physics –TAC & KMCPGS, Puducherry on 14th Sep.2014.
6. Attended “National level Conference on Mini Winter School on Ultra cold atoms” sponsored by UGC, New Delhi at Government College for Women (Autonomous), Kumbakonam, on 22, 23 and 24.12.2014.

9. Workshops attended : Number 2

1. Attended workshop on “Setting Question Bank For Part-A Questions” at A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai from 26.12.2011 to 27.12.2011 sponsored by UGC, New Delhi.
2. Attended workshop on “Scientific Writing” at A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai on 11.10.2014 sponsored by UGC, New Delhi.

10. Training programmes attended : Number : 1

1. Development of Teaching skills, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai. Conducted by IQAC from 02.09.2010 to 07.09.2010.

11. Other Positions Held in A.V.C. College :

Sl. No.	Positions held	From	To	Nature of work
1.	PEKAK Coordinator	June 2010	June 2014	Extension Programme
2.	Processing Member	May 2016	Till Date	Admission committee

12. Positions Held in Other Institutions :

Sl. No.	Positions held	From	To	Nature of work
1.	Scrutinizing Member	2009	Till Date	Question Paper Scrutinizing Board (ADM College)
2.	Scrutinizing Member	2013	Till Date	Question Paper Scrutinizing Board (Govt. College for Women) Kumbakonam.
3.	Scrutinizing Member	2017	Till Date	Question Paper Scrutinizing Board (Bharathiyar University)
4.	Scrutinizing Member	2019	Till Date	Question Paper Scrutinizing Board (Periyar University)

13. Invited Talk / Guest Lecture (2006 onwards) : Number

5

1. Acted as a resource person to deliver a **UGC sponsored Special Lecture on “Microprocessor and its applications”** in **Poompuhar College (Autonomous)**, Melaiyur on 04.04.12.
2. Acted as a resource person at the workshop on **“Techniques in Physics Teaching”** for **BT assistants** held at **DBTR. National H.S.School, Mayiladuthurai** conducted by **RMSA** on 01.02.13.
3. Acted as a resource person on **“Microprocessor and its applications”** in **Annai College, Kumbakonam** on 15.07.13.
4. Acted as a resource person at the workshop on **“Techniques in Physics Teaching”** for **PG assistants** held at **Maxwell Matriculation Higher Secondary School, Thanjavur** on 02.09.13 and 03.09.13.
5. Acted as a **Resource person** has given a talk on **“Microprocessor and its Application”** in **DAAC, Mayiladuthurai** on 11.03.2016.

14. Research Articles Published : 11

Journal

1. “*Molecular vibrational investigation [FT-IR, FT-Raman, UV-Visible and NMR] on Bis(thiourea) Nickel chloride using HF and DFT calculations*” in Spectrochimica Acta Part A : Molecular and Biomolecular Spectroscopy, 138 (2015) 203 – 215, **S. Anand**, R.S. Sundararajan, C. Ramachandraraja, S. Ramalingam, R. Durga.
2. “*Physico – Chemical characterization, Opto Electronic investigation and Vibrational Analysis on Coordinate covalent complex; Bis (thiourea) Nickel Bromide (BTNB) using Experimental and Computational tools*” in Journal of Theoretical & Computational Science, 3: 141 (2016) 1 – 15, **Anand S**, Sundararajan R.S, Ramachandraraja C, Ramalingam S and Durga R.
3. “*Vibrational Analysis and NLO Impact of Coordinate Covalent Bond on Bis (Thiourea) Cadmium Bromide: A Comparative Computational Study*” in Journal of Theoretical & Computational Science, 2: 133 (2015) 1 – 12, Durga R, Sundararajan R.S, Ramachandraraja C, Ramalingam S and **Anand S**.
4. “*Molecular Structure, Vibrational spectra [FT-IR and FT-Raman], Electronic spectra [UV-Visible] and NMR Analysis on Hydroquinone Using HF and DFT Calculations*” in International Advanced Research Journal in Science, Engineering and Technology, Vol. 3, Issue 5 (May 2016) 211 – 223, R. Durga, **S.Anand**, K. Rajkumar, S. Ramalingam, R.S. Sundararajan.
5. “*The spectroscopic (FT-IR, FT-Raman, NMR & UV-Vis) and first order hyperpolarizability, HOMO and LUMO analysis of Maleic anhydride by HF and DFT methods*” in IOSR Journal of Applied Physics, Vol. 8, Issue 3 (June 2016) 1 – 14, R. Durga, **S. Anand**, K. Rajkumar, S. Ramalingam, R.S. Sundararajan.
6. “*Vibrational, NMR and UV-Visible spectroscopic investigation, HOMOLUMO and NLO studies on Bis(thiourea) Cadmium chloride (BTCC) Using quantum mechanical simulations*” in Journal of Computational Methods in Molecular Design, 2016, 6 (2):39-59, R. Durga, R. S. Sundararajan, **S. Anand**, C. Ramachandraraja and S. Ramalingam.

7. **“Vibrational Spectroscopic Investigation on Bisthiourea Magnesium Sulphate (BTMS) Using Experimental and Computational [HF and DFT] Analysis”** in Journal of **Theoretical & Computational Science**, 4: 153 (2017) 1 – 12, Durga R, **Anand S**, Sundararajan R.S, Ramachandraraja C.
8. **“Optical, Mechanical and Spectroscopic Studies of L-Alanine Cadmium Bromide (LACB) Single Crystals”**, in **Archives of Physics Research**, 2018, 9 (1): 9-16, MVT Sumathee, R Durga, **S Anand***, RS Sundararajan.
9. **“Vibrational Spectroscopic Studies, Experimental and Computational Calculations of L-Glutamine Potassium Carbonate”** in International journal of basic and applied research, **March 2019** Volume 9 Number 3, R. Durga, R.S. Sundararajan, **S. Anand**, K. Rajkumar.
10. **“Growth and Characterization of DL Valine Admixed Cadmium Chloride Single Crystal (DLVCC)”** in International journal of basic and applied research, **April 2019** Volume 9 Number 4, C. Kayalvizhi, B. Samuel Ebinezar, R. S. Sundararajan, M.V.T. Sumathe, **S. Anand**.
11. **“Growth and Characterisation of Semi Organic L-Alanine Manganese Sulphate [LAMS] Single Crystals”** in International journal of basic and applied research, **April 2019** Volume 9 Number 4, K. Suganya, B. Samuel Ebinezar, R.S. Sundararajan, M.V.T. Sumathe, **S. Anand**.
15. Books Published : Number

6

 - **Computer Programming - “C” LANGUAGE – PRIYA PUBLICATIONS, KARUR-2. First Edition: December 2007 – Chapters I, II & III.**
 - **Energy Physics (Tamil Version) – PRIYA PUBLICATIONS, KARUR-2. First Edition: February 2008 – Chapters I, II & III.**
 - **Spectroscopy and Laser Physics (Tamil Version) – PRIYA PUBLICATIONS, KARUR-2. First Edition: May 2008 – Chapters I, II & III.**
 - **Solid State Physics (Tamil Version) – PRIYA PUBLICATIONS, KARUR-2. First Edition: December 2008 – Chapters I, II & III.**

- “LESSON WRITER” for the following subjects in English version in
**CENTRE FOR DISTANCE EDUCATION, BHARATHIDASAN
UNIVERSITY, TRICHIRAPPALLI – 620 024.**

TITLE OF THE BOOK:

PROPERTIES OF MATTER & ACOUSTICS – JANUARY 2013

ENERGY PHYSICS – AUGUST 2013

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