

PERSONAL PROFILE

Dr.A.VEERAI AH, LECTURER IN PHYSICS



1. Name : Dr.A.Veeraiah
2. Designation & Faculty : Lecturer in Physics
3. Father's Name : Adamilli Devadanam
4. Age & Date of Birth : 45 & 08-03-1976
5. Educational Qualifications :M.Sc., M.Tech., Ph.D.,...

S.No	Name of the course	Specialization Subjects	Registered No	Percentage of marks	Year of completion	University/Institute
1	S.S.C.	General	0181864	73.5	1993	Board of Secondary Education
1	Intermediate	Maths, Physics and Chemistry	073849	64.2	1995	Board of Intermediate Education
3	B.Sc.	Maths, Physics and Chemistry	953052011	61.1	1998	Acharya Nagarjuna University
4	M.Sc.	Physics	9833135	67.12	2000	Andhra University
5	M.Tech.	Applied Optics	2000PA013	66.66	2001	IIT Delhi, New Delhi
6	Ph.D	Physics	--	--	2013	Andhra University

6. Area of Specialization : Atomic and Molecular Spectroscopy

7. Teaching Experience : 19 Years

8. Details of Innovations / Contributions in Teaching

A) Design of Curriculum:

Member, Board of Studies, D.N.R.College
University Nominee, Adikavi Nannaya University
University Nominee, SCIM Government College, Tanuku
University Nominee, SKSD Mahila Kalasala, Tanuku

B) Teaching Methods : ICTs, Etc.,...

9. Publications

1. **A.Veeraiah**, Kadali Chaitanya, V.Veeraiah, M.V.S. Prasad, N. Udaya Sri, "Vibrational and Electronic spectroscopic studies on 5-Acetyluracil using DFT

- calculations", *Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy*, 95, 648-657, 2012.
2. **A.Veeraiah**, J. S. Reddy, K. Anand Solomon, G.Gopi Krishna, V.Veeraiah and K. Chaitanya, "Vibrational and UV-Vis absorption spectra of (Z)-2-(4-nitrobenzylidene)benzofuran-3(2H)-one using DFT calculations, *Journal of Molecular Structure*, Vol. 1026, pp. 36-43, October 2012
 3. N.Udaya Sri, Kadali Chaitanya, M. V. S. Prasad, V.Veeraiah, **A.Veeraiah**, "Experimental (FT-IR, FT-Raman and UV-Vis Spectra) and Density Functional Theory Calculations of Diethyl 3,5-pyrazoledicarboxylate", *Journal of Molecular Structure*, 1019, 68-79, 2012.
 4. M. V. S. Prasad, N.Udaya Sri, **A.Veeraiah**, V.Veeraiah, K.Chaitanya, "Molecular structure, vibrational spectroscopic (FT-IR, FT-Raman), UV-Vis spectra, first order hyperpolarizability, NBO analysis, HOMO and LUMO analysis, thermodynamic properties of 2,6-dichloropyrazine by ab initio HF and Density functional method" *Journal of atomic and molecular science*, Volume 4, No. 1, pp 1-17, 2013.
 5. N.Udaya Sri, .Chaitanya, M.V.S.Prasad, V.Veeraiah, **A.Veeraiah**, "Experimental (FT-IR, FT-Raman and UV-Vis Spectra) and Density Functional Theory Calculations of 3-Cyano-4-methylcoumarin" *Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy*, 97, 728-736, 2012.
 6. K. Ephraim Babu, **A.Veeraiah**, D. Tirupathi Swamy, V. Veeraiah "First-principles study of electronic and optical properties of cubic perovskite CsSrF₃", *Materials Science- Poland*, December 2012, Volume 30, Issue 4, pp 359-367.
 7. K. Ephraim Babu, **A. Veeraiah**, D. Tirupathi Swamy, V. Veeraiah, "First-principles study of electronic structure and optical properties of cubic perovskite CsCaF₃", *Chinese Physics Letters*, 2012, 29, 117102.
 8. B. N. Rajasekhar, **A. Veeraiah**, K. Sunanda and B. N. Jagatap, Excited states of aniline by photoabsorption spectroscopy in the 30 000–90 000 cm⁻¹ region using synchrotron radiation, *Journal of Chemical Physics*. Phys. **139**, 064303 (2013)
 9. S. Alen, D. Sajan, K. Job Sabu, K. Udaya Lakshmi, A. Veeraiah, K. Chaitanya and V. Bena Jothy, Studies on crystal growth, vibrational, dielectric, electronic, mechanical and thermal properties of new organic nonlinear optical crystal: 3-nitrocinnamic acid, *Crystal Engineering Communications*, 2013, **15**, 9176-9188
 10. **A. Veeraiah**, FT-IR, FT-Raman, UV/Vis spectra and fluorescence imaging studies on 2-(bromoacetyl)benzo (b)furan by ab initio DFT calculations, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Volume 147, Issue null, Pages 212-224
 11. **A.Veeraiah**, M.Satyavani, Katta Eswar Srikanth, Vibrational and UV/VIS Spectroscopic, NBO analysis of 6-(γ,γ'-dimethylallylamino) purine by ab initio d

- calculations, *International Journal of Engineering Research-Online* Vol.4., S2., 2016 .48
12. Y. Sushma Priya, K. Ramachandra Rao, P.V. Chalapathi, M. Satyavani, **A. Veeraiah**, Vibrational and UV spectroscopic studies of 2-coumaranone by experimental and density functional theory calculations, *Journal of Molecular Structure* 1144 (2017) 535-544
 13. Katta Eswar Srikanth, S Venkata Raju, M SatyaVani, D Vijay, P Paul Divakar & **A Veeraiah**, Characterization, NBO, NLO And Molecular Structural Analysis Of A Material -2-Hydroxyquinoline-4-Carboxylic Acid By Using DFT Method, *International Journal of Engineering Science Invention*, 2319 – 6734
 14. Yeddu Sushma Priya, Kokkiripati Ramachandra Rao, Pallavajhula Venkata Chalapathi, **Adamilli Veeraiah**, Vibrational and Electronic Spectra of 2-Phenyl-2-Imidazoline: A Combined Experimental and Theoretical Study, *Journal of Modern Physics*, 2018, 9, 753-774
 15. Katta Eswar Srikanth, K. Anand Solomon, **A. Veeraiah**, XRD, FT-IR, Electronic and Fluorescence Spectroscopic Studies, of Benzothiophenesulfone-2-methanol, *International Journal of Pure and Applied Researches*, 2018, 1, 5-25
 16. Katta Eswar Srikanth, **A.Veeraiah**, FT-IR, UV/Vis and Fluorescence spectra studies and Quantum Chemical Calculations on 3-Amino-5-(4-fluorophenyl)isoxazole, *International Journal of Pure and Applied Researches*, 2018, 1(1), 36-50
 17. Sushma Priya Y, Ramachandra Rao K, Venkata Chalapathi P and **Veeraiah A**, Vibrational Spectral Studies and Electronics Properties of Non-Linear Optical Heterocyclic Compound 3-Amino Pyrazole - DFT Study, *Journal of Clinical and Medical Images* and Short Reports, 2018; 1(2): 1-9
 18. Katta Eswar Srikanth, S.Venkata Raju, **A.Veeraiah**, and D.Vijay, A High Energy Material - 1, 4-Di Nitro-1H-Imidazole its Molecular Structure and NLO Analysis by using DFT method, *International Conference on Renewable Energy Research and Education (RERE-2018)*, *AIP Conf. Proc.* 1992, 040037-1–040037-8 , <https://doi.org/10.1063/1.5048002>
 19. **A.Veeraiah**, M.Satyavani, M.V.V.Ramanjaneyulu, K.Eswar Srikanth, Vibrational and UV-Visible Spectroscopic and NBO analysis of Kaemferol using DFT calculations, *International conference* on "Energy and Ecology" Conference Proceedings
 20. Katta Eswar Srikanth, **A.Veeraiah**, 4-Isoquinolineboronic Acid: Theoretical And Experimental Studies Using FT-IR, Uv-Visible, Fluorescence Spectra With The Help Of DFT Method, *Journal of Emerging Technologies and Innovative Research (JETIR)*, June 2019, Volume 6, Issue 6
 21. D.Vijay, Asim Kumar Das, B N Rajasekhar and **A.Veeraiah**, Quantum Chemical Calculations and FT-IR, UV Light Interactions On Benzofuran-2-Carbonyl Chloride, *Journal of Emerging Technologies and Innovative Research (JETIR)*, June 2019, Volume 6, Issue 6

22. K Eswar Srikanth, K Ramaiah, D Jagadeeswara Rao, K Prabhakara Rao, J Laxman Naik, **A Veeraiah** and J Prashanth, Experimental and theoretical analyses on structural (monomer and dimeric form), spectroscopic and electronic properties of an organic semiconductor 2,6-dimethoxyanthracene, **Indian Journal of Physics**, <https://doi.org/10.1007/s12648-019-01562-z> , July, 2019
23. D. Vijay , Y. Sushma Priya, M. Satyavani, Asim Kumar Das, B.N. Rajasekhar, **A. Veeraiah**, Structural, vibrational and electronic spectroscopic study of 6-hydroxycoumarin using experimental and theoretical methods, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 229 (2020) 117930.
24. Y. Sushma Priya , K. Ramachandra Rao , P.V. Chalapathi , **A. Veeraiah** ,Katta Eswar Srikanth, Y. Sheena Mary, Renjith Thomas, Intricate spectroscopic profiling, light harvesting studies and other quantum mechanical properties of 3-phenyl-5-isooxazolone using experimental and computational strategies, **Journal of Molecular Structure** 1203 (2020) 127461
25. Katta Eswar Srikanth , D. Jagadeeswara Rao, V. Seetaramaiah , **A. Veeraiah** , Molecular geometry and vibrational analysis of 1-(2, 5-dimethyl-furan- 3-yl)-ethanone by using density functional theory calculations, **Materials Today: Proceedings** 18 (2019) 2019–2025
26. Sushma Priya Yeddu , Pooventhiran Thangaiyan , **Adamilli Veeraiah** , Dharmarpu Vijay , Katta Eswar Srikanth , Ahmad Irfan, Renjith Thomas, Vibrational Spectral Studies, Quantum Mechanical Properties, and Biological Activity Prediction and Inclusion Molecular Self-Assembly Formation of N-N'- Dimethylethylene Urea, **Biointerface research in applied chemistry**, 3 (2022) 3996.
27. B.N. Rajasekhar, Vijay Dharmarpu, Asim Kumar Das, Aparna Shastri, **A. Veeraiah**, Sunanda Krishnakumar (2022) A spectroscopic study of benzonitrile, **Journal of Quantitative Spectroscopy & Radiative Transfer** 283 (2022) 108159, <https://doi.org/10.1016/j.jqsrt.2022.108159>

10. Research Projects Carried out so far

S.No.	Title of the Project	Name of the Funding Agency	Amount Sanctioned Rs.	Duration of the Project	
				From	To
1	Vibrational and electronic spectroscopic studies of some organic compounds	SERB, DST, Govt. of India	11,00,000.00 (2016)	23-04-2016	22-04-2018
2	Spectroscopic investigation of Benzofuran and coumarin derivatives of biological importance using theoretical and experimental techniques	UGC-Department of atomic Energy, Govt. of India	10,43,316.00 (2016-2022)	Sept. 2017	March 2022

11. Patents registered

S.No	Title of the patent	Name of the country	Grant Number	Date of grant
1	Targeted Drug Delivery Nanoparticle System	UK	6355653	08/04/2024
2	Nanocatalyst Dispersion System for Green chemistry	UK	6355652	08/04/2024
3	Intelligent battery discharge prediction and warning system for electric vehicles using cloud based machine learning	india	202441034467	10/05/2024

12. Books authored/Co Authored:

S.No	Title of the book	Author Position	Name of the Publisher	ISBN No	Year of Publishing
1	Computational Physics	First	Infinite Research	978-81-971503-2-6	2024
2	NanoPhysics	third	UK	978-81-971503-8-8	2024

13. Seminars, Conferences, Refresher Courses, etc., attended:

S.No	Name of the Seminar / Symposia / Conference , etc.,	Name of the Organizer			Nature of the Participation	Title of the Paper	Name of Sponsor
			From	To			
1	National seminar on "Emerging Trends in Material Science-An Application to Amorphous, Nano and Liquid Crystals"	Department of Physics, Sir C.R.R. College, Eluru	30-10-2010	--	Paper Presented	Electronic structure calculations and Vibrational analysis of 2,3 diethylnaphthofuran	UGC
2	International symposium on "Facets of Weak Interactions in Chemistry"	Department of Chemistry, University of Kolkata	13-01-2011	15-01-2011	Paper Presented		UGC, DST

3	National seminar on "Towards a new generation Complex nano materials	Department of Chemistry, Maharajah's Post Graduate College, Vizianagaram	30-01-2011	--	Paper presented	Ab initio HF and DFT studies of chloridrols: A comparative theoretical study	BRNS, DAE, Government of India
4	National Conference on "Advance Research Concepts in Physics"	Department of Physics, Government College, Rajamahendravaram	24-11-2011	25-11-2011	Paper Presented	Ab initio HF and DFT Computational modelling studies on 3,5 dimethyl-1-benzofuran-2-carboxylic acid	UGC
5	National seminar on "Future Cehmistry for Human development and Better Environment"	Department of Chemistry	21-10-2011	22-10-2011	Paper Presented	Electronic structure calculations and vibrational analysis of benzofuran -2-carboxylic acid: A comparative theoretical study	UGC
6	National Seminar on "Frontier Research Areas in Organic Synthesis"	Department of Organic Chemistry, Andhra University	29-11-2011	30-11-2011	Paper presented		A U
7	International symposium on "Effect of Emissions and Effluents on Environment"	Department of Engineering Chemistry, AU College of Engineering, AU	23-12-2011	24-12-2011	Paper Presented	Benzofurans: Spectroscopic view	AU
8	Energy conservation- Energy audit –Energy efficiency	Ch.S.D.St.Theresa's College for women, Eluru, W.G.Dt., A.P.	16.02.13	--	Paper presented	Vibrational and UV-Visible spectral studies of 5-amino-3-methyl-1-phenyl pyrazole using HF and DFT calculations	UGC
9	Energy conservation- Energy audit –Energy efficiency	CH.S.D.St.Theresa's College for women, Eluru, W.G.Dt., A.P.	16.02.13	--	Paper presented	Ab initio DFT studies of (S)-2-amino-3-(3,4-dihydroxyphenyl) propanoic acid	UGC
10	"Recent trends on Spectroscopy"	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	Vibrational and Electronic spectroscopic analysis of 2-ethyl-5-phenyl-1,3-oxazole: Hatree-Fock (HF) and Density Functional	UGC

						Theory (DFT) calculations	
11	“Recent trends on Spectroscopy”	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	FT-IR, FT-Raman, molecular structure, first order hyperpolarizability, MEP, HOMO-LUMO analysis and NBO analysis of 3-Chloro-7-hydroxy-4-methylcoumarin	UGC
12	“Recent trends on Spectroscopy” titled:	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	Characterization of 4-Hydroxy-6-(trifluoromethyl)pyrimidine by vibrational spectroscopy and DFT calculation	UGC
13	“Recent trends on Spectroscopy” titled:	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	Vibrational spectroscopic studies, normal co-ordinates analysis, first hyperpolarizability, HOMO-LUMO of 4-Aminopyrazolo(3,4-d)Pyrimidine by DFT calculation	UGC
14	“Recent trends on Spectroscopy” titled:	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	Vibrational spectroscopic (FT-IR and FT-Raman) study, normal coordinate analysis, HOMO-LUMO of Isopropenyl-2-benzimidazolidinone using density functional methods	UGC
15	“Recent trends on Spectroscopy”	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	A Combined Experimental and Theoretical studies on FT-IR, FT-Raman and UV-Vis Spectra of N-(Benzyloxycarbonyl)-1H-pyrazole-1-carboxamide	UGC
16	“Recent trends on Spectroscopy”	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt., A.P	11.12.14	--	Paper presented	Vibrational spectroscopic studies of 3,3-bis(4-methoxyphenyl)-2H-naphtho(2,1-b)Pyran by ab initio DFT calculations	UGC
17	“Recent trends on Spectroscopy”	Department of Physics, D.N.R.College, Bhimavaram, W.G.Dt.,	11.12.14	--	Paper presented	Ab initio and Vibrational spectroscopic studies of 2,2-bis(4-methoxyphenyl)-2H-naphtho[1,2-	UGC

		A.P				<i>b</i>]pyran by ab initio DFT calculations	
18	“Science and Engineering of materials for future needs”	Department of Physics, SR&BGNR Govt. Arts & Science College (Autonomous), Khammam - 507 002 Telangana, India.	22.12.15	--	Paper presented	Vibrational and UV-Visible spectral studies of 2-amino-4-(4-nitophenyl)-5-oxo-4,5,dihydropyrano(3,2-c)chromen-3-carbonitrile	UGC-SERO & MNRE
19	“Science and Engineering of materials for future needs”	Department of Physics, SR&BGNR Govt. Arts & Science College (Autonomous), Khammam - 507 002 Telangana, India.	22.12.15	--	Paper presented	Experimental (FT-IR, FT-Raman and UV-Visible) spectra and DFT calculations of 10-methyl-6-H-chromeno(4,3-b)quinolin-6-one	UGC-SERO & MNRE
20	“Science and Engineering of materials for future needs”	Department of Physics, SR&BGNR Govt. Arts & Science College (Autonomous), Khammam - 507 002 Telangana, India.	22.12.15	--	Paper presented	Vibrational Spectroscopic Studies of 2, 2-bis(4-methoxyphenyl)-2H-naphtho[1,2-b]pyran: A combined experimental and theoretical study	UGC-SERO & MNRE
21	Advances in Light Technologies and Spectroscopy of Materials	Department of Physics, University of Lucknow, Lucknow, U.P	16.01.16	18-01-2016	Paper presented	Vibrational and UV-Visible spectral studies of 2-amino-4-(4-nitophenyl)-5-oxo-4,5,dihydropyrano(3,2-c)chromen-3-carbonitrile	DST,UGC,LA STEC, ETC
22	Advances in Light Technologies and Spectroscopy of Materials	Department of Physics, University of Lucknow, Lucknow, U.P	16.01.16	18-01-2016	Paper presented	Experimental (FT-IR, FT-Raman and UV-Visible) spectra and DFT calculations of 10-methyl-6-H-chromeno (4,3-b)quinolin-6-one.	DST,UGC,LA STEC, ETC
23	Advances in Light Technologies and Spectroscopy of Materials	Department of Physics, University of Lucknow, Lucknow, U.P	16.01.16	18.01.16	Paper presented	Vibrational and UV-VIS spectroscopic studies of 4-Hydroxy-6-trifluoromethyl)pyrimidine	DST,UGC,LA STEC, ETC

24	National Seminar on "Make in India-The Dimensions and Prospects"	Department of Commerce, D.N.R.College, Bhimavaram	12-02-2016	--	Paper presented	Make in India-Myths and Reality	UGC
25	RUSA sponsored work shop on Choice based credit system and skill based practices in colleges	IQAC, K.G.R.L. College, Bhimavaram, W.G.Dt.,A.P	28.01.16	--	Participated	---	RUSA
26	National seminar on "Recent Advance in Spectroscopy Techniques"	P.G. Department of Chemistry, K.G.R.L. college, Bhimavaram, W.G.Dt., A.P.	19-02-16	20.02.16	Paper presented	Vibrational (FTIR, FT-Raman) and UV-Visible Spectroscopic, first-order hyperpolarizability, HOMO, LUMO and NBO of 1-Phenyl-3-pyrazolidinone based on DFT calculations.	UGC
27	National seminar on "Recent Advance in Spectroscopy Techniques"	P.G. Department of Chemistry, K.G.R.L. college, Bhimavaram, W.G.Dt., A.P.	19-02-16	20.02.16	Paper presented	Vibrational Spectroscopic(FT-IR,FT-Raman) and UV-Visible, first order hyperpolarizability, HOMO-LUMO and NBO analysis of 1-Phenyl-3-Pyrazolidinone based on DFT calculations.	UGC
28	National seminar on Advances in Spectroscopy	P.G. Department of Chemistry, K.G.R.L. college, Bhimavaram, W.G.Dt., A.P.	19-02-16	20.02.16	Paper presented	Ab initio DFT studies of 2-3-dihydro-1-benzofuran-5-yi methanol	UGC
29	National workshop on "Spectro Photometry and Chrometography"	Sir CRR College, Eluru	20-06-2016	--	Participated	--	Sir CRR College
30	National seminar on Environmental Protection and Sustainable	Department of Chemistry, Sir C.R.R. College, Eluru, W.G.Dt., A.P.	22.09.16	23.09.16	Paper presented	Vibrational and electronic spectral studies of cis- and trans-pyrazinecarboxylic acid	UGC

	Development						
31	National seminar on Environmental Protection and Sustainable Development:	Department of Chemistry, Sir C R R College, Eluru, W.G.Dt., A.P.	22.09.16	23.09.16	Paper presented	Molecular structure, vibrational spectroscopic studies of 4-chloro-3-formyl-6-methylcoumarin by ab initio and density functional methods	UGC
32	Quality improvement in Higher Education	IQAC, Sir CRR College, Eluru.	18-08-2016	24-08-2016	Participated	---	UGC
33	National Workshop Energy and Ecology	Department of Physics, Sir C.R.R. College, Eluru.	4/10/2016	5/10/2016	Paper presented	Molecular structure, vibrational spectroscopic studies of 4-chloro-3-formyl-6-methylcoumarin by ab initio and density functional methods	UGC
34	Energy, Environment and Economy	Department of Economics, D.N.R.College, Bhimavaram	09-12-2016	10-12-2016	Participated	--	UGC
35	Demonetization in India	Department of Commerce, D.N.R.College, Bhimavaram.	16-12-2016	--	Paper presented	A note in the advantages and disadvantages of Demonetization	UGC
36	International workshop on "Introduction to Gaussian: Theory and Practice"	Gaussian Inc., USA and S-Cube -India, New Delhi	16-01-2017	20-01-2017	Paper Presented	DFT and TD-DFT calculations of some coumarin derivatives	Gaussian Inc., USA and S-Cube -India, New Delhi
37	National Seminar on "Materials and Applications"	Department of Physics, AG&SG Siddhartha College of arts and science	07-01-2017	--	Paper Presented	Vibrational and UV Visible Spectroscopic, HOMO, LUMO, and NBO analysis of 7-hydroxy-4-(trifluoromethyl)coumarin	UGC
38	Recent Advances in Materials science	Department of Physics, Andhra University	30-05-2017	31-05-2017	Paper Presented	Vibrational and UV Visible Spectroscopic, HOMO-LUMO and NBO analysis of 2-acetyl-2-methylthiophene using DFT	Andhra University

						calculations	
39	National workshop on "Training Programme on Disaster Management for NCC cadets	National Institute of Disaster Management, Government of India, New Delhi	28-09-2017	01-09-2017	Participated	--	Government of India
40	Physics and Chemistry of non-crystalline Materials	Departments of Physics and Chemistry, Kakani Venkata Ratnam College, Nandigama	01-12-2017	02-12-2017	Paper Presented		UGC
41	National workshop on "Biomass to Bio-energy"	Departments of Physics, Botany and Bio-Technology	19-12-2017	20-12-2017	Paper Presented		UGC
42	International workshop on "Introduction to Gaussian: Theory and Practice"	Gaussian Inc., USA and S-Cube -India, New Delhi	08-01-2018	12-01-2018	Paper Presented	Spectroscopic studies of Benzothiophene sulfone-2-methanol by using Density Functional Theory	Gaussian Inc., USA and S-Cube -India, New Delhi
43	International Conference on "Applied Science and Technology"	S.R.K.R. Engineering College, Bhimavaram, A.P.	24-01-2018	25-01-2018	Participated	--	SRKR Engineering College
44	International conference on "Renewable Energy, Research and Education"	Government College(A), Rajamahendravaram	08-02-2018	10-02-2018	Paper Presented	A high energy material 1,4-Dinitro-1H-Imidazole and its molecular structure and NLO analysis using DFT method	UGC
45	International Conference on "Materials for energy and environmental protection"	Sir C.R.R. College, Eluru	12-02-2018	13-02-2018	Paper presented	Characterization, NBO, NLO and Molecular structural analysis of 2-Hydroxyquinoline-4-carboxylic acid by DFT method	UGC
46	National seminar on Bioelectronics,	K.G.R.L.College(A), Bhimavaram	22-03-2018	23-03-2018	Paper Presented		UGC

	Biosensors its Technologies and Applications						
47	International Conference on " New Materials and Arid Land"	Department of Physics, St.Joseph's College of Arts and Science, Cuddalore, Tamilnadu	15-03-2018	16-03-2018	Invited Talk	Vibrational, UV-Visible, NBO, NLO, HOMO-LUMO, Thermodynamic Analysis of some organic compounds	UGC
48	World Structural and Molecular Biology Conference	Holiday inn, Rome, Italy	26 November, 2018	28 November, 2018	Invited Talk	Molecular structure, vibrational and electronic spectroscopic studies of 1-(2-Aminophenyl)pyrrole using experimental and computational methods	
49	State level seminar on "Recent Advances in Clean Energies"	Department of Physics and Geology, Government College, Rajamahendravaram	27-12-2018	--	--	--	UGC
50	National seminar on "Advances in Materials and Environmental Science	Department of Physics, D.N.R. College, Bhimavaram	25-02-2019		Paper presentation	Calculation of Binding Energy Preference from Radio sensitizers to nucleobases and nucleosides using Density Functional Theory	UGC
51	National seminar on "Advances in Materials and Environmental Science	Department of Physics, D.N.R. College, Bhimavaram	25-02-2019		Paper presentation	FT-IR, UV/VIS and Fluorescence Spectra Studies And Quantum Chemical Calculations on 3-Amino-5-(4-Fluorophenyl)Isoxazole By using DFT method	UGC
52	National seminar on "Advances in Materials and Environmental Science	Department of Physics, D.N.R. College, Bhimavaram	25-02-2019		Paper presentation	Investigations of Raman activity and biological importance on Benzofuran-2-carbonyl chloride	UGC
53	National workshop on	Departments of	13-03-2019	---	---	----	UGC

	"Intellectual Property rights - Challenges and Issues in India"	Commerce, Politics and IQAC, D.N.R. College					
54	National Workshop on "Emerging Trends in Renewable Energy Resources"	Department of Physics, Sri Y.N.College, Narsapur	03-08-2019		Participation		RUSA
55	International Conference on "Recent Trends in Physics, Chemistry and Allied Sciences"	Ch.S.D.St.Theresa's College, Eluru	27-28 September, 2019		Paper presentation	Quantum chemical simulations and Vibrational spectral investigations of 2-naphthyl Acrylate	UGC
56	National seminar on "Intellectual Property Rights : Technological Development"	Sir C.R.R. College, Eluru	27-09-2019	28-09-2019		---	UGC
57	International Conference on "Innovations in Physics, Electronics and Chemistry"	Andhra Loyola College, Vijayawada	21-22 October, 2019		Participation	---	UGC
58	Faculty Development Programme on "Recent Trends in Teaching, Learning Methodologies Using ICT in Higher Education Institutions"	IQAC, Sir C.R.R. College, Eluru	24-10-2019	30-10-2019	Participation	---	RUSA
59	National Seminar on "Recent Trends in Research Methodology in Chemistry"	Department of Chemistry, Ideal College of Arts and Sciences, Kakinada	15-11-2019	16-11-2019	Participation	---	UGC
60	Teacher Training	IQAC, MVN JS &	02-12-2019	09-12-2019	Participation	---	RUSA

	Programme on "Usage of ICT in Teaching Learning Process"	RVR College of Arts and Science, Malikipuram					
61	National Seminar on "Present Research in Green Sustainable Technologies(PRGST-2019)	PR Government College, Kakinada	18-19 December, 2019	--	Paper presentation	Ab initio Quantum Computational studies on (-)-1-(1-Naphthyl)Ethanol	UGC
62	National Seminar on "Recent Trends in Climatic changes- An alarming Issue"	Sri Y.N.College, Narsapur	21 December, 2019	---	Participation	----	RUSA
63	107 th The Indian Science Congress	University of Agricultural Sciences, Bangalore	03-1-2020	07-01-2020	Participation		Indian Science Congress Association
64	International Conference on "Advances in Physics, Electronics and Chemical Sciences - 2020	Sir C.R.R. College, Eluru	27-28 February 2020	--	Paper Presentation	Structural, Chemical and Vibrational Studies on 5 - nitro - 2 - benzimidazolinone using DFT calculations	UGC
65	National Seminar on "Advances in Biotechnology & Bioinformatics	Departments of Zoology and Applied Life Sciences, DNR College, Bhimavaram	07-02-2020	--	Participation	--	UGC
66	8th Topical Conference on "Atomic and Molecular Collisions for Plasma Applications"	Department of Physics, I.I.T. Roorkee, Roorkee, Uttarakhand	03-03-2020	05-03-2020	Participation	Structural, vibrational and electronic spectroscopic study of 7-(4-trifluoromethyl) coumarin acrylamide using experimental and theoretical methods	DST, IITR, ISAMP

67	National Webinar on “Role of ICT in Smart Teaching and Scientific Writing”	Government College Autonomous, Rajahmundry, A.P.	02-05-2020	--	Participation	--	Government College, Rajahmundry.
68	Webinar on “Role of us in Academic Planning and Execution in View of COVID-19 Pandemic and Subsequent Lock-down”	K G R L College (A), Bhimavaram, AP	09-05-2020	--	Participation	--	K G R L College (A), Bhimavaram,
69	Webinar on “Current Trends and Opportunities in Physics”	Adikavi Nannaya University, Rajamahendravaram, A.P.	29-05-2020	--	Participation	--	Adikavi Nannaya University
70	Webinar on “Emerging Trends in Nano-Materials for Microwave, Integrated Electronics and Cancer Applications”	G.M.R. Institute of Technology, Rajam, Srikakulam, A.P.	04-06-2020	--	Participation	--	G.M.R. Institute of Technology
71	Webinar on “Creative Writing of Research Proposals & Articles”	UCST, Adikavi Nannaya University, Rajamahendravaram, A.P.	04-06-2020	--	Participation	--	Adikavi Nannaya University
72	National Level Webinar on “NANO PHYSICS”	Government Degree College, Razole, A.P.	29-08-2020	--	Participation	--	Government Degree College, Razole
73	One Week National Workshop on “RESEARCH METHODOLOGY”	UCST & SDC, Adikavi Nannaya University, Rajamahendravaram, A.P.	12-10-2020	17-10-2020	Participation	--	Adikavi Nannaya University
74	Webinar Series on "Intellectual Property Rights in Academics and Research"	UCST, Adikavi Nannaya University, Rajamahendravaram,	28-11-2020	--	Participation	--	Adikavi Nannaya University

		A.P.					
75	A Two-Day National Webinar on "Emerging Trends in Mathematical Sciences and Engineering Applications	UCE, Adikavi Nannaya University, Rajamahendhravaram, A.P.	06-01-2021	07-01-2021	Participation	--	Adikavi Nannaya University
76	Webex meeting on "MatSQ 108: Which Visualizer is suitable for your research?"	Host: Materials Square Webinar, Korea	28-01-2021	--	Participation	--	Materials Square
77	FDP on Advances in Nano materials and single Crystals for practical Device Applications	UCST, Adikavi Nannaya University, Rajamahendhravaram, A.P.	03-02-2021	--	Participation	--	Adikavi Nannaya University
78	"National Webinar on Modeling of Novel Materials Through Atomistic Molecular Dynamics Simulations"	Department of Physics, Auxilium College, Vellore, TN.	11-03-2021	--	Participation	--	Auxilium College, Vellore
79	Virtual International Conference on "Hierarchically Structured Materials (ICHSM 2021)"	SRM Institute of Science & Technology, Ramapuram Campus, Chennai, TN	08-04-2021	10-04-2021	Participation	--	SRM-TN
80	International Online Conference on Light-Matter Interaction (IC-LMIN-2021)	Indira Gandhi Centre for Atomic Research, Kalpakkam-603102, Tamil Nadu	19-05-2021	21-05-2021	Participation	--	IGCAR
81	National Webinar on "Raman Spectroscopy – Instrumentation & Analysis"	Department of Chemistry, Bhaktavatsalam Memorial College for Women, Korattur, Chennai. ISAS Tamilnadu Chapter (in association)	07-06-2021	--	Participation	--	ISAS-TN

82	National Webinar on Solving Challenging Problems in Chemistry Using Computational Chemistry and Machine Learning	Dept. Of Chemistry, The American College, Madurai, Tamil Nadu, India	14-06-2021	--	Participation	--	ACM
83	DAE-BRNS 8th Interdisciplinary Symposium on Materials Chemistry	Chemistry Division, BARC, Mumbai-400085, India	17-06-2021	19-06-2021	Participation	--	BARC
84	Workshop on Advanced Physics of Emergent Materials and Electronic Devices– 2021 (WAPEMED-21)	Dept. Of Physics & Dept. M.Sci.& Engg. Pandit Deendayal Energy University (PDEU), Gujarat 382426	21-06-2021	23-06-2021	Participation	--	PDEU
85	National Virtual Conference on Advanced Functional Composite Materials and Applications - “NCAFCMA 2021”	Department of Physics, Academy of Maritime Education and Training (AMET), Chennai, Tamil Nadu.	28-06-2021	29-06-2021	Participation	--	AMET-TN
86	Awareness Meeting of UGC-DAE CSR on Utilization of In-House and Large Scale DAE Facilities	(I) UGC-DAE Consortium for Scientific Research, Kalpakkam Node, TN. (II) Central University of Tamil Nadu. (III) Anna University, Chennai-600025, TN.	03-08-2021	--	Participation	--	UGC- DAE
87	The DAE Symposium on “Current Trends in Theoretical Chemistry” (CTTC-2020) Online Platform: webex	Chemistry Division, Bhabha Atomic Research Centre (BARC) Mumbai, India Society for Materials Chemistry (SMC), India	23-09-2021	25-09-2021	Paper Presentation	MS-F-124 entitled "Chemical and Electronic Structural Investigations on 1, 3-Dimethyl-2-Imidazolidinone	SMC - BARC

88	3-day Virtual Lecture Workshop on “Recent Trends of Spectroscopy in material, nanomaterial and biological Sciences”	Department of Physics, Manipur University, Imphal.	27-09-2021	29-09-2021	Participation	--	MU-IMPL
89	DAE Second Symposium on “Current Trends in Analytical Chemistry” (CTAC-2021) Online Platform: webex	Analytical Chemistry Division, Bhabha Atomic Research Centre (BARC) Mumbai, India Association of Environmental Analytical Chemistry of India (AEACI), India	20-10-2021	23-10-2021	Participation	--	AEACI - BARC
90	BRNS-AEACI Fourteenth “School on Analytical Chemistry” (SAC-14) Online Platform: webex, TSH, BARC	Analytical Chemistry Division, Bhabha Atomic Research Centre (BARC) Mumbai, India. Sponsored by the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, India	25-10-2021	30-10-2021	Participation	--	BARC - BRNS
91	Workshop on 'Atomic and Molecular Physics with ion beam'	Inter University Accelerator Centre (IUAC), New Delhi-110067	17- 11-2021	18-11-2021	Participation	--	IUAC
92	The 21st edition of the “World Sustainable Development Summit” (WSDS-2022) The umbrella theme - Towards a Resilient Planet: Ensuring a	The Energy and Resources Institute(TERI), India Habitat Centre, Lodhi Road, New Delhi 110003	16-02-2022	18-02-2022	Participation	--	TERI

	Sustainable and Equitable Future.						
93	FDP - Carbon Capture and Storage (CCS)	Department of Chemistry, Central University of Tamil Nadu.	21-02-2022	25-02-2022	Participation	--	CU-TN
94	One Day National Seminar on "The Problems of Malnutrition in India and Future Prospects"	Govt Degree College, Chintalapudi, E.G., A.P.,	26-02-2022	--	Participation	--	GOVT. OF A.P.
95	"FDP-Computational Approaches for Experimental Chemists-2022"	Chemistry Division (SAS), VIT Chennai	17-03-2022	18-03-2022	Participation	--	VIT
96	InPAC 2022 Satellite on-line session : Applications of high energy x-rays in materials science: role of high energy 4th generation light sources	Raja Ramanna Centre for Advanced Technology (RRCAT),Indore, M.P. under the aegis of Indian Society for Particle accelerators (ISPA)	21-03-2022	--	Participation	--	RRCAT - ISPA
97	DST Funded 7-Day Training Program on Exploring The Research Innovations In Sciences With Hands On Experience	School of Sciences, Government College (A), NAAC A+ (CGPA:) Rajahmundry, East Godavari Dt. A.P. In Association with GITAM Institute of technology, deemed to be university, Visakhapatnam, A.P.	20-06-2022	26-06-2022	Participation	--	GITAM - DST
98	A Webinar Series on Excellence in Teaching, Training and Research	Bharat Institute of Engineering and Technology(BIET) - HYD In collaboration with Centre for Research and Development in	23-07-2022	--	Participation	--	BIET - HYD

		Education and Social Integration and Indian Ceramic Society, Hyderabad Chapter					
99	National Workshop on Computational Based Material Science (ONLINE)	GURU NANAK KHALSA COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS) (Affiliated to University of Mumbai and Recognized by Govt. of Maharashtra)	22-08-2022	23-08-2022	Participation	--	GOVT. OF MH
100	International Online Workshop on Thermoelectric Materials and Applications (TMA-2022)	SSN Research Centre, SSN Institutions, Chennai-603110, Tamil Nadu, India Sponsored by Science and Engineering Research Board (SERB), GoI. In association with Indian Association for Crystal Growth (IACG)	24-08-2022	25-08-2022	Participation	--	SSN - IACG
101	UGC-DAE CSR awareness workshop for southern states (Half-Day-meeting)	Department of Materials Sciences, School of Technology, Central University of Tamil Nadu, Thiruvavur, TN- 610 005	13-09-2022	--	Participation	--	UGC-DAE
102	Two day Online Raman Spectroscopy Masterclass	Advanced Materials at Aaivalayam-DIRAC, Coimbatore, India	18-11-2022	19-11-2022	Participation	--	DIRAC
103	Theme meeting "Spectroscopy using Indus Synchrotron Radiation"	RRCAT convention centre, RRCAT, Indore.	24-03-2023	25-03-2023	Paper Presentation	Quantum Chemical Simulations And Vibrational Spectral Investigations Of (2,3-Dihydro-1-	RRCAT

	(SISR-2023)					Benzofuran-5-Yl)methanol	
104	“INTRODUCTION TO DATA ANALYTICS”	UG & PG Departments of Computer Science, DNR College (A) Bhimavaram, A.P.	31-03-2023	--	Participation	--	DNRC
105	1 st International Conference on Environmental Challenges & Remedies for Sustainable Future (ICECRSF-23)	Dept. of Chemistry, Government College(A), Rajamahendravaram, A.P.	15-09-2023	16-09-2023	Paper Presentation	Short Review on Bio-Fuels and Latest Advancements in India	CCE, GOVT. OF A.P.
106	International Conference on Materials Engineering, Materials Chemistry and Materials Physics (MECAP-2023)	S.R.K.R. Engineering College (Autonomous) Bhimavaram - 534204, West Godavari District, A.P., INDIA.	25-09-2023	26-09-2023	Paper Presentation	A Short Review of Bharth's Sustainable Development In The World's Environment Protection	SRKR ENGG COLLEGE
107	Two Days National Conference on “Novel Materials for Sustainable Development ”-2024 (NMSD-2024) (Hybrid Mode)	Department of Physics, Government Degree College, Porumamilla-516193 Sponsored By Andhra Pradesh State Council of Higher Education, Guntur, A.P	15-3-2024	16-3-2024	Paper Presentation	Role of Metal-Organic Framework In Sustainable Development	CCE, GOVT. OF A.P.

14.Refresher / Orientation courses/Faculty Development Programmes attended

S.No.	Course	Dates of the Course	Place
1	Orientation Course	24-04-2006 TO 21-05-2006	Andhra University, Visakhapatnam.
2	Refresher Course	13-05-2008 TO 02-06-2008	Andhra University, Visakhapatnam.
3	Refresher Course	18-01-2011 TO 07-02-2011	Andhra University, Visakhapatnam.
4	Training Programme on Disaster Management	28-08-2017 TO 01-09-2017	National Institute of Disaster Management, New Delhi
5	Faculty Development Programme	24-10-2019 TO 30-10-2019	Sir CRR College, Eluru
6	Teacher Training Programme	02-12-2019 TO 09-12-2019	MVNJS &RVR College of Arts and Science, Malikipuram
7	Orientation and Teacher Training Programme	09-03-2010 TO 14-03-2020	S.V.K.P. & Dr.K.S.Raju Arts and Science College, Penugonda
8	Faculty Development Programme	28-05-2020 to 02-06-2020	Dr. K.V. Subba Reddy Institute of Technology, Kurnool
9	Faculty Development Programme	08-06-2020 to 13-06-2020	JMJ College For Women (A), Tenali
10	Faculty Development Programme	27-09-2021 to 02-10-2021	SIR C R REDDY College, Eluru
11	Faculty Development Programme	21-02-2022 to 26-02-2022	SRKR Engineering College, Bhimavaram
12	Faculty Development Programme	14-03-2023 to 18-03-2023	SRKR Engineering College, Bhimavaram
13	Faculty Development Programme	01-05-2023 to 13-05-2023	DNR College of Engineering and Technology, Bhimavaram

15. Details of Visits abroad

Countries Visited	Purpose of Visit	Duration of Visit			Period		
		From	To	Total	Duration of Visit		
					From	To	Total
Italy	International Conference	25-11-2018	28-11-2018	4	25-11-2018	28-11-2018	4

16. Memberships of Professional Bodies, Societies etc., :

Life member, Indian Society of Atomic, Molecular and Optical Physics

17. Academic Distinctions (Awards / Honours, etc) :

S.No	Name of the Award	Given by	Date and Venue
1	Best Scientist Award in Physics	International Multidisciplinary Research Foundation(IMRF), India	21-10-2019 Andhra Loyola College, Vijayawada
2	Global teacher award	AKS Education awards	21-12-2020 virtual

18. As NCC Officer

Date of Commission : 25 Jun 2007 Cert Holder : 'C' Certificate

Srl. No	Period		Centre	Grading
	From	To		
(a)	14 Jul 2008	11 Oct 2008	OTA, KAMPTEE	'A'

No of Refresher Trg Course attended

Srl. No	Course No.	Period		Centre	Grading
		From	To		
1	REF/SD/PART II/120	31-10-2016	29-11-2016	OTA, KAMPTEE	A

Date of commission as Lieutenant : 26-06-2007

Date of commission as Captain : 26-06-2017

19 .Participation in Extension Work / Community Service:

Please give a short account of your contribution to :

- i) Community work such as values of National integration, Secularism, democracy, socialism, humanism, peace, scientific

temper, flood or drought relief, small family norms etc.,

As NCC Officer, he has been rendering his services in connection with awakening the society by conducting number of social service activities. He has been directing number of students and NCC cadets in the enhancement of their skills.

ii) National Literacy Mission

20. Participation in corporate life :

Please give a short account of your contribution to

a) College / University / Institution:

b) Co-Curricular activities:

1. Worked as Associate NCC Officer of the College from January 2007 to 10-09-2021 .

2. Nodal Officer, Swatchh Bharat Summer Internship-2018.

3. Convener, Handbook Committee, DNR College.

4. Convener, Fine Arts Association, D.N.R.College.

5. Member, NAAC Steering Committee.

6. Convener, Anti Ragging Committee.

c) Enrichment of Campus Life: **Member, Anti Ragging Committee.**

(Hostel, Sports, Games, Cultural Activities)

21. Mobile No. :8143395467

22. Aadhar No :400284419144

23. PAN No :AENPA0024R

24. Mail Id :avruavru@gmail.com

25. Employee Id :0450797

26. Any other information :NIL

27. Reviewer of the following International Journals of high repute

- **Journal of Molecular Structure**
- **Spectrochimica Acta Part A**
- **Spectroscopy Letters**
- **Open Chemistry**
- **Journal of modern Physics**
- **Journal of Physics and Chemistry of Solids, etc.,...**

Other details related to research:

<https://scholar.google.co.in/citations?user=CzfJi0AAAAJ&hl=en>

Capt.Dr.A.Veeraiah