VENKATRAM REDDY BYRU

Professor of Physics
Kakatiya University
Warangal – 506009
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SKILLS

- Advanced Teaching Skills
- Strong Practical Skills
- Information Analysis
- Executing Quality Research
- Effective Review of Information
- STEM Coursework
- Activity Planning

EDUCATION

Ph.D (Physics) - 1992
Kakatiya University, Warangal, Telangana, India

M.Sc (Physics) – 1989
Kakatiya University, Warangal, Telangana, India

B.Ed (Physical Sciences) – 1990
Kakatiya University, Warangal, Telangana, India

PGDCS – 2000
Hyderabad Central University
Hyderabad, India

PROFESSIONAL SUMMARY

Accomplished Professor of Physics with over 36 years of teaching experience at Kakatiya University and Govt. Aided College, specializing in Electronics, Molecular Spectroscopy and Material Science. Authored and edited four books and published 63+ research papers in reputed journals of good impact factor. Renowned for advanced teaching and strong practical skills with significant contribution to education and research. Executed two major research projects funded by UGC and RUSA. Served as Member on Board of Studies in Physics and Electronics for various Educational Institutions. Life-membership in various Professional Organizations. Proven as an Able Administrator in various positions in University.

WORK HISTORY

Kakatiya University – Professor of Physics
Warangal, Telangana, India – September/1994 – till date

TEACHING

Put 36 years of experience in teaching Physics, specifically in Electronics, Spectroscopy and Quantum Mechanics. Authored & edited four Books: Basic Electronics, Physics of Semiconductor Devices, Basic Instrumentation; and Analog and Digital Electronics.

RESEARCH

Executing Quality Research in Molecular Spectroscopy & Material Physics. Guided six students for Ph.D degree, published 63+ research papers of good impact factor in reputed international journals, acquired i10-index of 29 and h-index of 16, executed two Research projects sanctioned by UGC and RUSA, Recognized as an active Peer Reviewer for about 46 international research journals and Editorial Board Member for two Research Journals. Participated in International Conferences at Ohio State University and Sothern Methodist University, USA with the financial assistance from UGC and DST, India, and delivered invited talks and chaired the Lecture Sessions on invitation at various conferences of International and National level.

ADMINISTRATION & LEADERSHIP

Served to Kakatiya University in various capacities like Registrar; Controller & Additional Controller of Exams; Dean, Academic Affairs and Education; Director for CIC, RUSA and University Hostels; Head & Chairperson of Board of Studies in Physics, Principal for University P.G. College, Program Officer for NSS unit, etc. Also served as Dean, Faculty of Sciences, Satavahana University, Karimnagar, Telangana.

Presently, assisting as the Convener for TG Ed.CET -2025 conducted by Kakatiya University on behalf of Telangana Council of Higher Education (TGCHE), Hyderabad.

Elected as President for the Association of Kakatiya University Teachers (AKUT) for 2025-2027. Conducted 2nd Telangana Science Congress-2025 as Organizing Secretary.

AWARDS & ACHIEVEMENTS

Honored with State Best Teacher Award-2024 by Govt. of Telangana; Lifetime Achievement Award-2022 and Dr. Gunasekaran Award-2020 by ISPA. Recognized as Fellow of Telangana Academy of Science, Outstanding Peer Reviewer by Elsevier Publishers and Complementary Membership by ACS, USA.

Serving as Member of Board of Studies in Physics for University of Madras, Osmania University, JNTUH; TGBIE & ERTW, Vaagdevi Engg College (Autonomous), and served for Satavahana University, MG University, Nalgonda; Chaitanya University, etc.

Life-Member of ISPA, ISAMP, LASSI, GPPPPG, etc. Identified Mentor for NITTTR by UGC, India.

Curriculum Vitae

Name & Designation **:** Prof. BYRU VENKATRAM REDDY
Professor of Physics
Kakatiya University, Warangal, Telangana, India
Phone: +91 870 2461428 (O), +91 9440162740 (M)
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***Father's and Mother's Name*:** Late Sri Raghava Reddy & Late Smt. Laxmi Devi

Date & Place of Birth : 20/10/1966 & Peddakodepak, Warangal Dist, Telangana

Educational Qualifications **:**

B.Sc	1986	Osmania University	I Div
M. Sc:	1988	Kakatiya University	I Div
B. Ed:	1990	Kakatiya University	II Div
Ph. D:	1992	Kakatiya University	-
PGDCS:	2000	Univ. of Hyderabad	I Div

Teaching Experience*:* 36 years (PG: 28 years; UG: 7 years)

S. No	Designation	Institution	From	To
1	**Lecturer in Physics (Part-time)**	C.K.M. Government College, Warangal	28 /08/1989	04/09/1994
2	**Lecturer in Physics (Ad-hoc)**	Univ. P. G. College Kakatiya University Godavarikhani	05/09/1994	10/02/2003
3	**Assistant Professor of Physics**	Kakatiya University, Warangal	11/02/2003	10/02/2015
4	**Associate Professor of Physics**	Kakatiya University, Warangal	11/02/2015	10/02/2018
5	**Professor of Physics**	Kakatiya University, Warangal	11/02/2018	Till date

Research Credentials:

(https://scholar.google.co.in/citations?user=Rkt0lRgAAAAJ&hl=en)

Research Experience	***:***	*36 Years **(i10-index: 29; h-index: 16; Citations: 883)***
Research Area	***:***	Molecular Spectroscopy & Material Science
Research Papers	:	63 (International: 54; National: 09) **(Annexure –III)**
Average Impact Factor of Research Papers	:	2.78
WoS & SCI Publications	:	53
No. of Ph.Ds awarded	:	06 + 03 (pursuing)
Workshops, Conferences, Seminars, etc, attended	:	54; International (Abroad): 02; International (India) : 12; National: 39 **(Annexure: IV - VIII)**

Research Projects completed/ ongoing : 1) Major Research Project (Vibrational spectroscopic investigations and Density Functional Theory (DFT) calculations of some Biomolecules) of worth Rs. 11.45 Lakh funded by UGC, New Delhi during 2012-2015

2) Research Project (DFT computations for molecular structure and characteristics of some biomolecules) of worth Rs. 46.6412 Lakh funded by RUSA 2.0 under component 10 from 2019 onwards (**Ongoing)** .

3) Leading as Director, RUSA Research Centre for Molecules and Materials Physics of worth Rs. 4.23 Crore (**Ongoing)** .

International Exposure in Research (Annexure –II) : Peer Reviewer for about 46 Reputed International Journals of American Chemical Society (ACS), Elsevier, Royal Society of Chemistry (RSC), Taylor & Francis, Wiley, Springer, etc.

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Editorial Board Member, BMC Chemistry, Springer Nature Publishers, UK, London

Foreign visits : 1) USA (Ohio State University, Columbus, Ohio) in 2011; **Funded by UGC, New Delhi**

2) USA (Southern Methodist University, Dallas, Texas) in *2018; **Funded by ITS-SERB, DST, New Delhi***

Academic Credentials:

1) Identified Mentor of NITTTR, UGC, Govt. of India.
2) Member, BoS in Physics, University of Madras, Chennai
3) Member, BoS in Physics, Osmania University, Hyderabad
4) Member, BoS in Physics, JNTUH, Hyderabad
5) Member, BoS in Physics, Kakatiya University, Warangal
6) Member, BoS in Environmental Science, Kakatiya University, Warangal
7) Member, BoS in Physics, Satavahana University, Karimnagar
8) Member, BoS in Physics, Mahathma Gandhi University, Nalgonda
9) Member, BoS in Electronics, SR & BGNR Govt. College (Autonomous), Khammam
10) Member, BoS in Physics, Vaagdevi Engineering College (Autonomous), Bollikunta, Warangal
11) Member, BoS in Physics & Electronic, Chaitanya Degree & P.G. College, Hanamkonda
12) Member, Syllabus Revision Committee for Applied Physics of B.Tech, KU, Warangal
13) Subject Expert in Physics for TGBIE & ERTW, Hyderabad & Editor for Physics-I Text Book

Awards & Achievements:

1) Organized 2nd Telangana Science Congress-2025 as **Organizing Secretary** on behalf of Kakatiya University in collaboration with Telangana Academy of Sciences, Hyderabad during 19-21 Aug., 2025 with a grand success.
2) Elected as "**President" for Association of Kakatiya University Teachers (AKUT) for 2025-2027.**
3) Honored with **"State Best Teacher Award – 2024 from KU"** on National Teachers Day – 2024 by Government of Telangana, Higher Education Department, Hyderabad
4) Stood at **Rank 1 in Physics and Rank 3 in Natural Sciences** in Kakatiya University in 2024 published by AD Scientists Rankings
5) Elected as "**Fellow of Telangana Academy of Sciences (FTAS)"** for the year 2022.
6) Recipient of "**ISPA Life Time Achievement Award – 2022**" from Indian Spectro Physics Association (ISPA), Chennai, India
7) Recipient of "**ISPA Dr. Gunasekaran Award – 2020**" from Indian Spectro Physics Association (ISPA), Chennai, India
8) Recognized as "**Outstanding Reviewer**" by Elsevier Publishers for J. Molecular Structure during 2018
9) Honored with **"Complementary Membership"** by ACS, Publishers, USA

Professional/Institutional Memberships

1) Life-Member, Indian Society of Atomic & Molecular Physics (ISAMP)
2) Life-Member, Lasers & Spectroscopy Society of India (LASSI)
3) Life-Member, Indian Spectro Physics Association (ISPA)
4) Member (Complementary), American Chemical Society (ACS)
5) Life-Member, Godavari Pradushana Pariharana Paryavarana Parirakhsana Gavaksham (GPPPPG).

Administration Credentials (Annexure – I)

State Level	**:**	***Organizing Secretary,*** Telangana Science Congress -2025 at Kakatiya **University** in collaboration with Telangana Academy of Sciences, Hyderabad ***Convener***, Telangana Education Common Entrance Test (TG Ed.CET) – 2025
At Kakatiya University Warangal	**:**	***Registrar***; ***Controller & Additional Controller*** of Exams; ***Dean*** of Academic Affairs & Education; ***Director*** for CIC, RUSA & University Hostels; ***Head & Chairperson***, Board of Studies in Physics; ***Project Coordinator***, UGC-SAP, Dept. of Physics ***Principal,*** Univ. P.G. College, Godavarikhani; ***Program Officer***, NSS; and ***Coordinator,*** Student Welfare & Placement Cell
At Satavahana University Karimnagar	:	***Dean***, Faculty of Science (06/6/2023 – 05/11/2024)

Annexure – I (Administrative / Academic / Leadership Credentials)

S. No	Position		Department / University	Period
1	Organizing Secretary		Telangana Science Congress-2025	19-21 August 2025
2	Convener	:	Telangana Education Common Entrance Test (TG Ed.CET) - 2025	2025
3	President	:	Association of Kakatiya University Teachers (AKUT)	2025-2027
4	Registrar	:	Kakatiya University, Warangal	01/6/2021 – 24/6/2021 & 03/8/2021 – 17/11/2022
5	Controller of Exams (FAC)	:	Kakatiya University, Warangal	01/6/2021 – 24/06/2021
6	Dean (I/c), Academic Audit	:	Kakatiya University, Warangal	03/8/2021 – 04/01/2022
7	Dean (I/c), Faculty of Education	:	Kakatiya University, Warangal	01/01/2022 – 21/01/2022
8	Dean, Faculty of Science	:	Satavahana University, Karimanagar	06/6/2023 – 05/11/2024
9	Director, RUSA Centre for Molecules & Materials Physics	:	Kakatiya University, Warangal	12/8/2021 – till date
10	Addl. Controller of Examinations (Confidential)	:	Kakatiya University, Warangal	18/9/2017 – 24/6/2021
11	Addl. Controller of Examinations (UG)	:	Kakatiya University, Warangal	03/9/2012 – 31/8/2015
12	Director (I/c), Central Instrumentation Centre	:	Kakatiya University, Warangal	30/4/2020 – 04/01/2022
13	Head, Department of Physics	:	Kakatiya University, Warangal	22/5/2019 – 21/5/2021
14	Chairperson (I/c), BoS in Education	:	Kakatiya University, Warangal	01/01/2022 – 19/10/2022
15	Chairperson, BoS in Physics & Electronics	:	Kakatiya University, Warangal	30/5/2015 – 07/6/2017
16	Coordinator, UGC-SAP, Dept. of Physics	:	Kakatiya University, Warangal	09/2/2017 – 31/03/2023
17	Member, BoS in Physics	:	University of Madras, Chennai, TN	01/9/2020 – 30/8/2023 & 18/10/2025 onwards
18	Member, BoS in Physics	:	Osmania University, Hyd.	24/10/2025 onwards
19	Member, BoS in Physics	:	JNTUH, Hyderabad	17/06/2025 onwards
20	Member, BoS in Physics	:	Satavahana University, Karimnagar	2019 – 2021
21	Member, BoS in Physics	:	Mahathma Gandhi University, Nalgonda	2019 – 2021
22	Member, BoS in Electronics (UG)	:	SR&BGNR Govt. Degree & PG College, Khammam	2019 – 2021
23	Member, BoS in Environmental Science	:	Kakatiya University, Warangal	06/10/2016 – 05/10/2018
24	Member, Syllabus Revision Committee for Applied Physics (B.Tech)	:	Kakatiya University, Warangal	2010 – 2018
25	Member, BoS in Physics (PG)	:	Kakatiya University, Warangal	2013 – 2015

26	Member, BoS in Physics & Electronics	:	Chaitanya Degree & PG College (Autonomous), Hnk	2007 – 2011
27	Member, BoS in Physics	:	Vaagdevi Engineering College (Autonomous), Warangal	2025
28	Subject Expert in Physics	:	TG Board of Intermediate Edn., & ERTW, Hyderabad	2025
29	Principal	:	University P.G. College (KU), Godavarikhani	08/8/2008-18/8/2009
30	Director, University Hostels	:	Kakatiya University, Warangal	07/7/2011 – 12/9/2012
31	Joint Director, Hostels	:	University P.G. College (KU), Godavarikhani	1998 – 2001 & 2007 – 2008
32	Program Officer, NSS	:	University P.G. College (KU), Godavarikhani	2004- 2007
33	Coordinator, Student Welfare & Placement Cell	:	University P.G. College (KU), Godavarikhani	2004 – 2005
34	Member, College Planning & Development Council	:	Govt. Degree College, Godavarikhani	2008 – 2009
35	Member, Governing Body	:	Kendriya Vidyalaya, NTPC, Ramagundam, Karimnagar	2008 – 2009

Annexure – II
(Peer Reviewer for the Research Journals)

American Chem. Soc. (ACS)

1. J. Phys. Chemistry
2. J. Org. Chemistry
3. J. Chem. Theory & Computations
4. Langmuir
5. ACS Omega

Royal Society of Chemistry (RSC)

1. Phys. Chem. & Chem. Physics
2. New J. of Chemistry
3. Royal Society Open Science

Elsevier

1. Spectrochimica Acta
2. J. Molecular Structure
3. Comp. Biology & Chemistry
4. J. Molecular Liquids
5. J. Non-crystalline Solids
6. Results in Chemistry
7. J. Ind. Chem. Society
8. Food Chemistry
9. Helion

Taylor & Francis

1. Analytical Chem. Letters
2. Molecular Simulation
3. Poly. Aromatic Compounds
4. Molecular Physics
5. Mol. Cryst. & Liquid Cryst.
6. Spectroscopy Letters
7. J. Biomol. Struct. & Dynamics
8. J. Sulfur Chemistry
9. Phase Transitions
10. J. Dispersion Science & Tech.

Springer

1. Molecular Modeling
2. Scientific Reports

Wiley

1. ChemSelect
2. Advances in Cond. Matter Phys.
3. J. Molecular Recognition
4. Luminescence
5. International J. Quantum Chemistry
6. Vietnam J. Chemistry

Others

1. J. Computational Biophysics & Chemistry
2. Canadian J. Chemistry
3. Ind. J. Pure & Appl. Physics
4. J. of Chemistry
5. J. Chemical Research
6. DAE-Solid State Physics Symposium
7. International Union of Pure & Appl. Chemistry
8. Optical and Quantum Electronics
9. SN Applied Sciences
10. Technology and Healthcare
11. Vietnam J. Science, Technology & Engg

Annexure - III
Research Publications (Descending Order)
No. of Citations : 883; i10 index: 29; h-index: 16

Year	S. No.	Title & Authors (*Corresponding Author)	Journal details	Impact Factor
2025	63	Synthesis of O-Prenylated O-Glycosylated and O-Benzylated Phenazines Derivatives and Their Antimicrobial and Molecular Docking Studies *T. Karunakar*, J. Prashanth, K Raghava Raju,* ***B. Venkatram Reddy****, M. Komal Reddy*	Chemistry and Biodiversity **(Accepted)** **DOI:** 10.1002/cbdv.202501658 **(Wiley Publishers)**	2.5
2024	62	A New epoxy steroid isolated and characterized from Bufo melanostictus venom with potential IL-6 along with TNF-α inhibition and spectroscopic study for structure and vibrational properties using DFT *B. Naresh, N. Prasad*, J. Prashanth,* ***B. Venkatram Reddy***	J. of Molecular Structure, 1308 (2024) 138081 https://doi.org/10.1016/j.molstruc.2024.138081 **(Elsevier)**	4.7
2024	61	Monohalogenated methyl- and methoxy-benzoic acids: A combined experimental and quantum chemical theoretical study on their structure, vibrational analysis and molecular parameters *Sreenivas Boda, L. Ravindranath, K. Srishailam, G. Ramesh, Jai Kishan Ojha,* ***B. Venkatram Reddy****	J. of Molecular Structure, 1298 (2024) 137078 doi.org/10.1016/j.molstruc.2023.137078 **(Elsevier)**	4.7
2023	60	Structure, Frontier Molecular Orbitals, MEP, Charge Analysis, and NLO Study of 2,4-, 2,5-, and 2,6-Dimethylanilines Using DFT *Jai KIshan Ojha, G. Ramesh, B. Sreenivas,* ***B.Venkatram Reddy****	Polycyclic Aromatic Compounds 44(8) (2023) 5166-5187 doi.org/10.1080/10406638.2023.2261591 **(Taylor & Francis)**	2.4
2023	59	Insights into synthesis, structural, energetic, vibrational, anticancer activity and molecular characteristics of 2-((2-aminopyridin-3-yl)methylene)-N-phenylhydrazine-carbothioamide as evaluated using spectroscopic and DFT investigations *K. Ramaiah, K.Srishailam*,* ***B. Venkatram Reddy,*** *G. Ramana Rao*	J. of Molecular Structure 1295 (2023) 136339 doi.org/10.1016/j.molstruc.2023.136339 **(Elsevier Publishers)**	4.7
2023	58	Structure, chemical reactivity, NBO, MEP analysis and thermodynamic parameters of pentamethyl benzene using DFT study *Jai Kishan Ojha , G. Ramesh,* ***B. Venkatram Reddy****	Chemical Physics Impact 7 (2023) 100280 doi.org/10.1016/j.chphi.2023.100280 **(Elsevier Publishers)**	4.3
2023	57	Insights into structural and vibrational characteristics of 1-methoxy-4- [2-(phenylsulfonyl)vinyl]benzene: an application of experimental vibrational spectroscopy and density functional theory *K. Srishailam*, A. Balakrishna,* ***B. Venkatram Reddy****, G. Ramana Rao*	J. of Molecular Structure 1286 (2023) 135572 doi.org/10.1016/j.molstruc.2023.135572 **(Elsevier Publishers)**	4.7
2023	56	Investigation of barrier potential, Structure (monomer &dimer), chemical reactivity, NLO, MEP and NPA analysis of pyrrole-2-carboxaldehyde using quantum chemical calculations *G. Ramesh,* ***B. Venkatram Reddy****	Polycyclic Aromatic Compounds 43(5) (2023) 4216 - 4230 doi: 10.1080/10406638.2022.2086889 **(Taylor & Francis)**	2.4

2023	55	Barrier potential, Structure (monomer & dimer), Inter- & Intra- molecular interactions, Vibrational analysis, Fukui functions, MESP, NBO, UV and NMR analysis of pyridine-3-carboxylic acid using Spectroscopic and DFT approach *G. Ramesh and* ***B. Venkatram Reddy****[*]	Polycyclic Aromatic Compounds 43(3) (2023) 2488 -2505 doi.org/10.1080/10406638.2022.2046614 (**Taylor & Francis)**	2.4
2023	54	Molecular characteristics of 1-benzhydrylazetidin-3-ol by time dependent density functional theory analysis *L. Ravindranath*, P. Venkata Ramana Rao, K. Srishailam,* ***B. Venkatram Reddy***	Materials Today: Proceedings 92(2) (2023) 1023-1029 doi.org/10.1016/j.matpr.2023.05.003 **(Elsevier)**	1.46
2023	53	Pyridinecarboxaldehydes: Structures, Vibrational Assignments and Molecular Characteristics Using Experimental and Theoretical Methods *G. Ramesh, P. Venkata Ramana Rao, K. Srishailam,* ***B. Venkatram Reddy****	Brazilian Journal of Physics 53(45) (2023) **DOI :** 10.1007/s13538-023-01255-3 **(Springer)**	1.7
2023	52	Quantum chemical study for structure, electronic and NLO properties of 2-amino-4-nitrotoulene and 2-amino-5-nitrotoulene *Jai Kishan Ojha, G. Ramesh,* ***B. Venkatram Reddy****	Asian J. of Chemistry 35(5) (2023) doi.org/10.14233/ajchem.2023.27740 **(Asian Publication Corp.**)	0.535
2022	51	Experimental and DFT Quantum Chemical Studies on Structural, Vibrational and Molecular Properties of Some Substituted 4-phenylphenols *L. Ravindranath, K. Srishailam,* ***B. Venkatram Reddy****	Polycyclic Aromatic Compounds 43(10) (2023) 9233-9268 doi.org/10.1080/10406638.2022.2161584 (**Taylor & Francis)**	2.4
2022	50	Electronic spectra (Experimental and Simulated), and DFT investigation of NLO, FMO, NBO and MESP characteristics of some biphenylcarboxaldehydes *K.Srishailam, L. Ravindranath,* ***B. Venkatram Reddy****, *G.Ramana Rao*	Polycyclic Aromatic Compounds 43(8) (2023) 7200-7213 doi.org/10.1080/10406638.2022.2130376 (**Taylor & Francis)**	2.4
2022	49	Silane moiety-bearing borasilsesquioxanes – synthetic protocol and unsuspected redistribution reactions *Miłosz Frydrych; Bogna Sztorch*; Dariusz Brząkalski; Daria Pakuła; Robert E. Przekop; Kanugula Srishailam;* ***B. Venkatram Reddy****; Bogdan Marciniec*	ChemPlusChem doi.org/10.1002/cplu.202200295 **(Wiley)**	3.0
2022	48	Experimental and density functional theory study on structure, vibrational and molecular characteristics of 2-chloro-5- methylpyrimidine and 2,4-dichloro-5-methylpyrimidine *B. Sreenivas, L. Ravindranath, K. Srishailam, Jai Kishan Ojha and* ***B. Venkatram Reddy****	Molecular Simulation 48(11) (2022) 1017-1030 doi.org/10.1080/08927022.2022.2060967 (**Taylor & Francis)**	2.2
2022	47	Synthesis, DFT computations, molecular docking studies and anticancer activity of 2-(4-fluorophenyl)-3-(5-methylisoxazol-3-yl)thiazolidin-4-one *G.Ramesh, B.Rathnakar, Ch.Narsaiah, N.Rameshwar, M.Srinivas, V.Namratha, G.Durgaiah, Y.Narsimha Reddy,* ***B.Venkatram Reddy****,*M. Satyanarayana*	Chemical Data Collections 39 (2022) 100859 **(Elsevier Publishers)**	3.1

2021	46	Synthesis, single-crystal X-ray diffraction, NLO and DFT studies of centrosymmetric 4-amino-3,5-dimethyl-1*H*-pyrazolium citrate monohydrate salt *B. Radhika, J. Prashanth, Srinivas Basavoju, S. Jyothi,* ***B. Venkatram Reddy****	Molecular Physics 120(6) (2022) e2022797 doi.org/10.1080/00268976.2021.2022797 (**Taylor & Francis)**	1.8
2021	45	Synthesis, antimicrobial activity and DFT studies of 4,5-dihydro-9- methoxy-4-(5-methylisoxazol-3-yl)benzo[f][1,4]oxazepin-3(2H)-one *G. Ramesh , K. Ramu, M. Srinivas, R. Haripriya,* ***B. Venkatram Reddy****	Materials Today: Proceedings 50(3) (2022) 340-347 doi.org/10.1016/j.matpr.2021.08.219 **(Elsevier Publishers)**	1.4
2021	44	Theoretical (DFT) and experimental (FT-IR & FT Raman) approach to investigate the molecular geometry and vibrational properties of 2,5- and 2,6-dihydroxytoluenes *P. Venkata Ramana Rao, K. Srishailam[b],* ***B. Venkatram Reddy****, G. Ramana Rao[b]*	J. of Molecular Structure 1240 (2021) 130617 **(Elsevier Publishers)**	4.7
2021	43	Synthesis, evaluation of molecular structure from torsional scans, study of vibrational and molecular characteristics using spectroscopic and DFT methods of some thiosemicarbazones and investigation of their anticancer activity *K. Srishailam, K. Ramaiah, K. Laxma Reddy,* ***B. Venkatram Reddy****, G. Ramana Rao*	Chemical Papers 75(7) (2021) 3635-3647 doi.org/10.1007/s11696-021-01595-x **(Springer)**	2.5
2020	42	Synthesis of Sr1-xBaxBi2B2O7 glass ceramics: A study for structure and characterization using experimental techniques and DFT method *G. Padmaja, G. Devarajulu, B. Deva Prasad Raju, G.R. Turpu,K. Srishailam,* ***B. Venkatram Reddy****,* *G. Pavan Kumar*	J. of Molecular Structure 1220 (2020) 128660 doi.org/10.1016/j.molstruc.2020.128660 **(Elsevier Publishers)**	4.7
2020	41	NMR & Electronic Spectra, NLO, FMO, NBO and Thermodynamic Properties of Pentachlorophenol: An Experimental and Theoretical Investigation *P. V. Ramana Rao, K. Srishailam, G. Ramesh,* ***B. Venkatram Reddy****,G. Ramana Rao*	Asian J. of Chemistry 32(12) (2020) 3057-3062 **(Asian Publication Corp.**)	0.535
2020	40	Theoretical and experimental study of torsional potentials, molecular structure (monomer and dimer), vibrational analysis and molecular characteristics of some dimethyl bipyridines *L. Ravindranath,* ***B. Venkatram Reddy****	J. of Molecular Structure 1200 (2020) 127089 doi.org/10.1016/j.molstruc.2019.127089 **(Elsevier Publishers)**	4.7
2019	39	Barrier potentials, molecular structure, force filed calculations and quantum chemical studies of some bipyridine di-carboxylic acids using the experimental and theoretical using (DFT, IVP) approach *Jyothi Prashanth, Ramaiah Konakanchi,* ***B.Venkatram Reddy****	Molecular Simulation 45(16) (2019) 1353-1383 doi.org/10.1080/08927022.2019.1634807 **(Taylor & Francis)**	2.1

2019	38	Investigation of torsional potentials, hindered rotation, molecular structure and vibrational properties of some biphenyl-carboxaldehydes using spectroscopic techniques and density functional formalism *K. Srishailam, **B. Venkatram Reddy*,** G. Ramana Rao*	J. of Molecular Structure 1196 (2019) 139-161 **(Elsevier Publishers)**	4.7
2019	37	Synthesis, crystal and molecular structure, and characterization of 2- ((2-aminopyridin-3-yl) methylene)-N-ethylhydrazinecarbothioamide using spectroscopic (^{1}H and ^{13}C NMR, FT-IR, FT-Raman, UVeVis) and DFT methods and evaluation of its anticancer activity *K. Ramaiah, K. Srishailam, K. Laxma Reddy, **B. Venkatram Reddy*,** G. Ramana Rao*	J. of Molecular Structure 1184 (2019) 405-417 **(Elsevier Publishers)**	4.7
2019	36	Structural and vibrational properties of pentabromo-phenol and pentafluorophenol: A spectroscopic investigation using density functional theory *P. Venkata Ramana Rao,K. Srishailam, L. Ravindranath, **B. Venkatram Reddy*,** G. Ramana Rao*	J. of Molecular Structure 1180 (2019) 665-675 **(Elsevier Publishers)**	4.7
2019	35	Experimental and theoretical determination of structural and vibrational properties of pentachlorophenol and pentachlorothiophenol *K. Srishailam, P. Venkata Ramana Rao, L. Ravindranath, **B. Venkatram Reddy*,** G. Ramana Rao*	J. of Molecular Structure 1178 (2019) 142-154 **(Elsevier Publishers)**	4.7
2019	34	Synthesis, spectroscopic, and DFT quantum chemical studies of 3- and 4-pyridyl-acetonitriles *P. Rajender Reddy, J. Prashanth, B. Prasanna, **B. Venkatram Reddy****	J. of Molecular Structure 1176 (2019) 447-460 **(Elsevier Publishers)**	4.7
2019	33	Vibrational spectroscopic (FT-IR, FT-Raman), anti-inflammatory, docking and molecular characteristic studies of Ni(II) complex of 2-aminonicotinaldehyde using theoretical and experimental methods *K. Ramaiah, J. Prashanth, J. Haribabu, E. Srikanth, **B. Venkatram Reddy*,** R. Karvembu, K. Laxma Reddy*	J. of Molecular Structure 1175 (2019) 769-781 **(Elsevier Publishers)**	4.7
2018	32	Synthesis, Structural, Biological Evaluation, Molecular Docking and DFT Studies of Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II) Complexes bearing Heterocyclic Thiosemicarbazone ligand *Ramaiah K, J. Haribabu, J. Prashanth, V. B. Nishtala, Ramachary M, Saikumar M, Durgaiah G, Ramasamy K, **B. Venkatram Reddy**, Narsimha Reddy Y, Laxma Reddy K**	Appl. Organometallic Chem 32(8) 2018; e4415 https://doi.org/10.1002/aoc.4415 **(Wiley)**	4.072
2018	30	Spectroscopic investigation on structure (monomer and dimer), molecular characteristics and comparative study on vibrational analysis of picolinic and isonicotinic acids using experimental and theoretical (DFT & IVP) methods *G. Ramesh, **B. Venkatram Reddy****	J. of Molecular Structure 1160 (2018) 271-292 **(Elsevier Publishers)**	4.7

2018	29	Study on structure, vibrational analysis and molecular characteristics of some halogen substituted azido-phenylethanones using FTIR spectra and DFT *J. Prashanth,* ***B. Venkatram Reddy****	J. of Molecular Structure 1155 (2018) 582-597 **(Elsevier Publishers)**	4.7
2018	28	Molecular structure, vibrational analysis, hyperpolarizability and NBO analysis of 3-methyl-picolinic acid using SQM calculations *G. Ramesh, J. Prashanth, J. Laxman Naik,* ***B. Venkatram Reddy****	J. of Structural Chemistry 59(5) (2018) 1022-1031 **(Springer Publishers)**	1.4
2018	27	Molecular structure and vibrational analysis of 2,5-pyridinedicarboxylic acid using experimental and theoretical methods *J. Laxman Naik and* ***B. Venkatram Reddy****	Materials Science and Engg. **360** (2018) 012028 **(IOP Conf. Series)**	0.51
2017	26	Synthesis, structural, spectroscopic, anti-cancer and molecular docking studies on novel 2-[(Anthracene-9-ylmethylene)amino]-2- methylpropane-1,3-diol using XRD, FTIR, NMR, UV-Vis spectra and DFT *P. Pavitha, J. Prashanth, G. Ramu, G. Ramesh, K.Mamatha,* ***B. Venkatram Reddy****	J. of Molecular Structure 1147 (2017) 406-426 **(Elsevier Publishers)**	4.7
2016	25	Investigation of torsional potentials, molecular structure, vibrational properties, molecular characteristics and NBO analysis of some bipyridines using experimental and theoretical tools *J. Prashanth,* ***B. Venkatram Reddy*,*** *G. Ramana Rao*	J. of Molecular Structure 1117 (2016) 79-104 **(Elsevier Publishers)**	4.7
2016	24	Molecular geometry, NBO analysis, Hyperpolarizability and HOMO-LUMO energies of 2-azido-1-phenylethanone using Quantum chemical calculations *J. Prashanth, G. Ramesh, J. Laxman Naik, Jai Kishan Ojha,* ***B. Venkatram Reddy****	Materials Today: Proceedings 3 (2016) 3761–3769 **(Elsevier Publishers)**	1.46
2016	23	Experimental and theoretical study of 3-methyl-4-nitrobenzoic acid using DFT and IVP methods *J. Prashanth, Jai Kishan Ojha,* ***B. Venkatram Reddy*,*** *G. Ramana Rao.*	Journal of Physics: Conference Series 759 (2016) 1-8, 012057. **IOP Science Publishers**	0.59
2015	22	Experimental (FTIR and FT-Raman) and theoretical investigation of some pyridine-dicarboxylic acids *J. Laxman Naik,* ***B. Venkatram Reddy****, *N. Prabavathi.*	J. of Molecular Structure 1100 (2015) 43-58 **(Elsevier Publishers)**	4.7
2015	21	Molecular Structure, vibrational spectra, natural bond orbital and thermo dynamic analysis of 3,6-dichloro-4-methylpyridazine and 3,6- dichloropyridazine-4-carboxylic acid by dft approach. *N. Prabavathi**, N. Senthil Nayaki,* ***B. Venkatram Reddy***	Spectrochim. Acta A 136 (2015) 1134-1148 **(Elsevier Publishers)**	4.6

2015	20	Molecular structure, vibrational analysis and first order hyperpolarizability of 4-methyl-3-nitrobenzoic acid using density functional theory *J. Prashanth, G. Ramesh, J. Laxman Naik, Jai Kishan Ojha,**B. Venkatram Reddy*,** G.Ramana Rao*	Optics and Photonics Journal 5 (2015) 91-107 **(Scientific Research Publishers, USA)**	0.85
2015	19	Molecular structure and vibrational analysis of 2,6-pyridine- dicarboxylic acid using experimental and theoretical methods *J. Laxman Naik, G. Ramesh and **B. Venkatram Reddy***	**ICSEMF-2015 (e-book) 331-335**	--
2015	18	Vibrational analysis and Transferability of Force constants of 3-methyl pyridine-2-carboxylic acid using DFT and IVP methods *J. Laxman Naik, J. Prashanth and **B. Venkatram Reddy***	**ICSEMF-2015 (e-book) 336-339**	--
2015	17	Spectroscopic study of 2-azido-1-phenylethanone using density functional theory (DFT) *J. Prashanth, **B. Venkatram Reddy*,** G. Ramana Rao*	**ICSEMF-2015 (e-book) 340-343**	--
2013	16	Transferable valence force fields: the case of out-of-plane vibrations of some trimethoxybenzenes. *J. Laxman Naik, **B. Venkatram Reddy*,** G. Ramana Rao*	Conference Proceedings of AMST-2012, 416-422 (2013), **Lap LAMBERT Academic Publishers**	--
2012	15	Vibrational analysis and Valence force field for nitrotoluenes, dimethylanilines and some substituted methylbenzenes. *Jai Kishan Ojha, **B. Venkatram Reddy**, G. Ramana Rao*****	Spectrochim. Acta A, 96 (2012) 632-643, **(Elsevier Publishers).**	4.6
2011	14	Vibrational analysis of some substituted methylbenzenes. Part II: Transferability of force constants - the case of tetra-, trimethyl- benzenes and nitroparatoluidine *Jai Kishan Ojha, **B. Venkatram Reddy**, G. Ramana Rao**	AIP Conference Proceedings of International Conference: Optics-2011; 1391 (2011) 472 **(AIP Publishers, USA)**	--
2008	13	Vibrational spectra and modified valence force field of N,N'-methylene- bisacrylamide. ***B. Venkatram Reddy,** G. Ramana Rao**	Ind. J. of Pure & App. Phys. 46 (2008) 611 **(NISCAIR, CSIR, New Delhi)**	0.84
2007	12	Normal coordinate analysis of some di- and trimethoxy nitrobenzenes. ***B. Venkatram Reddy**, G. Ramana Rao**	Acta Ciencia Indica, 33(1) (2007) 27 **(Pragathi Prakashan, Meerut)**	--
2007	11	Transferable valence force fields: the case of out-of-plane vibrations of dimethoxybenzenes. ***B. Venkatram Reddy,** G. Ramana Rao**	Asian J. of Physics 16(1) (2007) 29 **(Anitha Publications, Ghaziabad).**	--
2006	10	Normal coordinate analysis of some fluorotoluenes. *Jai Kishan Ojha, **B. Venkatram Reddy**, G. Ramana Rao**	Acta Ciencia Indica, 32(4) (2006) 509 **(Pragathi Prakashan, Meerut)**	--

2004	9	Vibrational analysis of mononitro substituted benzamides, benzaldehyde and toluenes: Part I – Vibrational spectra, normal coordinate analysis and transferability of force constants of nitrobenzamides, nitrobenzaldehydes and nitrotoluenes. *Md. Qayyum, **B. Venkatram Reddy**, G. Ramana Rao* *	Spectrochim. Acta A, 60 (2004) 279 **(Elsevier Publishers)**	4.6
2004	8	Vibrational analysis of mononitro substituted benzamides, benzaldehyde and toluenes: Part II – Transferability of valence force constants. *Md. Qayyum, **B. Venkatram Reddy**, G. Ramana Rao* *	Spectrochim. Acta A, 60 (2004) 291 **(Elsevier Publishers).**	4.6
2002	7	Normal coordinate treatment of some pyridines. ***B. Venkatram Reddy,** G. Ramana Rao* *	Indian J. of Physics 76B (4) (2002) 473 **(Springer Publishers)**	1.6
1996	6	Vibrational analysis of substituted anisoles: Part III – Normal coordinate analysis of 2,6-di- and penta-chloro anisoles. ***B. Venkatram Reddy,** A. Pavan Kumar, G. Ramana Rao**	Asian J. of Physics 5 (1996) 193 **(Anitha Publications, Ghaziabad).**	--
1994	5	Transferable valence force fields for substituted benzenes: Part I – Monohalogenated anisoles. ***B. Venkatram Reddy,** G. Ramana Rao* *	Vibrational Spectroscopy 6 (1994) 231 **(Elsevier Publishers)**	3.80
1994	4	Transferable valence force fields for substituted benzenes: Part II – Di- and Tri-methoxy benzenes. ***B. Venkatram Reddy,** G. Ramana Rao**	Vibrational Spectroscopy 6 (1994) 251 **(Elsevier Publishers)**	3.80
1994	3	Transferable valence force fields for substituted benzenes Part III – Tri-substituted benzenes. ***B. Venkatram Reddy,** G. Ramana Rao ****	Vibrational Spectroscopy 6 (1994) 259 **(Elsevier Publishers).**	3.80
1992	2	Vibrational analysis of substituted anilines, anisoles and anisidines: Part III – Further evidence for the transferability of valence force constants. ***B. Venkatram Reddy,** D. Vijaya Kumar, G.Ramana Rao**	Vibrational Spectroscopy 4 (1992) 67 **(Elsevier Publishers).**	3.80
1992	1	Normal Coordinate Analysis of out-of-plane vibrations of some fluoro- and chloro substituted anisoles. ***B. Venkatram Reddy**, B. Laxmaiah, G. Ramana Rao**	Indian J. Pure & App. Phys. 30 (1992) 351 **(NISCAIR, CSIR, New Delhi).**	0.84

Book Publications

Year	S. No.	Title	Book Publishers
2018	1	Basic Electronics (Editor)	Telugu Akademi, Hyderabad
2020	2	Physics of Semiconductor Devices (Author & Editor)	Telugu Akademi, Hyderabad
2022	3	Basic Instrumentation (Author & Editor)	Telugu Akademi, Hyderabad
2024	4	Analog and Digital Electronics (Editor)	CDOE, Kakatiya University, Warangal
2025	5	Intermediate Physics – I (One of the Editors) in progress	Telangana Board of Intermediate Education, Hyderabad

A N N E X U R E – IV

List of Invited Talks / Popular Lectures/ Chaired Sessions , etc given:

38. Sectional Secretary for the theme 'Paradigm Shift in Space Program' at **Telangana Science Congress-2025 (TSC-2025)** held during 19-21 Aug., 2025 organized by Kakatiya University, Warangal in collaboration with Telangana Academy of Science, Hyderabad

37. Invited Talk on "*Designing a Monostable Multivibrator using the given Operational Amplifier"* at **National Workshop on Learning Electronics Through Experiments (NWLETE-2025)** held during 12-13 Feb., 2025 organized by Dept. of Physics, Periyar University of Post Graduate & Research Studies, Dharmapuri, Salem, Tamilnadu.

36. Chaired the Technical Session at **National Workshop on Learning Electronics Through Experiments (NWLETE-2025)** held during 12-13 Feb., 2025 organized by Dept. of Physics, Periyar University of Post Graduate & Research Studies, Dharmapuri, Salem, Tamilnadu and Indian Spectro Physics Association (ISPA).

35. Invited Talk on "*DFT – A Computational tool to investigate the structure and optical properties of materials*" at **National Conference on Advanced Materials and Spectroscopy (NCAMS 2024)** held during 22-23 August 2024 organized by the Departments of Physics & Chemistry, Dr. R.K.S. College of Arts & Science, Kallakurichi, Tamilnadu

34. Chaired the Technical Session and addressed in Valedictory session at **National Conference on Advanced Materials and Spectroscopy (NCAMS 2024) held** during 22-23 August 2024 organized by the Departments of Physics & Chemistry, Dr. R.K.S. College of Arts & Science, Kallakurichi, Tamilnadu and Indian Spectro Physics Association (ISPA).

33. Invited Talk on "*DFT – A Quantitative technique to study the structure and optical properties of materials*" at **National Seminar on Materials Characterization Techniques (NSMCT 2024)** during 6-7 March 2024 organized by Department of Physics, Acharya Nagarjuna University, Gunturu, AP.

32. Invited Talk on "*Quantitative analysis – A study on structure and molecular characteristics of pyridine-carboxylic acids and pyridine-carboxaldehydes***"** at **3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023)** during **14-16 Sept., 2023** organized by Dept. of Physics, Periyar University, Salem, TN.

31. Invited Talk on "*Synthesis and spectroscopic study for structure, molecular characteristics and anticancer activity of some thiosemicarbazones using DFT method*" at **National Conference on Science for Materials and its Advancements in Recent Trends (NCSMART - 2023)** *on* **24th Feb., 2023** organized by Dept. of Physics, Periyar University Centre for Post-Graduate and Research Studies, Dharmapuri, Tamilnadu.

30. Chaired the Session at **National Conference on Science for Materials and its Advancements in Recent Trends (NCSMART - 2023)** *on* **24th Feb., 2023** organized by Dept. of Physics, Periyar University Centre for Post-Graduate and Research Studies, Dharmapuri, Tamilnadu.

29. Invited Talk on "*Operational Amplifiers: Characteristics and Applications*" at **Refresher Course in Physics** on **8th Feb., 2023** organized by UGC-HRDC, Sri Venkateshwara University, Tirupathi.

28. Keynote Address on "*Spectroscopic and DFT study on structure and molecular characteristics of some substituted pyridines and bipyridines*" at **National Seminar on Physics of Innovative Materials and Spectroscopy (NSPIMS-2022)** on **22nd Sept., 2022** organized by Dept. of Physics, Dr. B. R. Ambedkar Govt. College, Chennai.

27. Chaired the Session at **National Seminar on Physics of Innovative Materials and Spectroscopy (NSPIMS- 2022)** on **22nd Sept., 2022** organized by Dept. of Physics, Dr. B. R. Ambedkar Govt. College, Chennai.

26. Invited Talk on "*Experimental and DFT study on structure, vibrational and molecular characteristics of 2-chloro-5- and 2,4-dichloro-5-methylpyrimidine*" at **International Conference on Crystal Growth and Spectroscopy (ICCGS-2022)** during **29-31 August 2022** organized by Department of Physics, St. Joseph's College (Autonomous), Tiruchirapalli, Tamilnadu

25. Invited Lecture on "*Raman Spectroscopy, Instrumentation and Applications"* at **Three Week Industrial Training Program to Polytechnic Chemistry Lecturers** during **6-25 June 2022,** organized by Department of Chemistry, Kakatiya University, Warangal.

24. Invited Talk on "*Experimental and theoretical study of molecular structure and vibrational characteristics of some 4-phenyl phenols*" **at National Virtual Conference on Recent Advances in Material Science (NVCRAMS- 2021)** on **8th Oct., 2021** organized by St. Peter Institute of Education & Research, Chennai.

23. Invited Talk on "*Synthesis, molecular structure from torsional scans, study of vibrational and molecular characteristics using spectroscopic and DFT methods and investigation of their anticancer activity"* **at International Conference on Physics of Emerging Materials and Molecules (ICPEMM-2021)"** during **4-5 March 2021** organized by Sri Vidya Mandir Arts & Science College (Autonomous), Uthangarai, TN.

22. Keynote Address on *"Importance of Physics & Success stories of Great Physicists"* at **Three day Webinar on Knowledge Prism during 29-31 December 2020** organized by TTWRCDC, Jangaon, TS.

21. Invited Talk on *"Importance of Physics in Engineering Physics"* at **Induction Program for Engineering Students on 16th & 17th Dec., 2020** organized by KU College for Engineering & Technology for Women, KU Campus, Warangal – 506009.

20. Invited Talk on "*Semiconductor Devices and Logic Circuits"*at **One Day State level Workshop on Low Cost Models with Simulations in Undergraduate Physics Practicals on** 7th Mar., 2020 organized by Department of Physics, Govt. Degree College (Autonomous), Siddipet, TS.

19. Keynote address on *"Nano Science and Photonics"* at **Webinar on Fundamentals of Photonics and Nano Science for UG students on 23rd July, 2020** organized by Govt. Degree College, Luxettipet, Mancherial, TS.

18. Invited Talk on "*National Education Policy: Design of Physics component by UGC and TSCHE – A review"* at **One Day State level Workshop on Redesigning UG Physics Syllabus under Revised CBCS Curriculum** 8th Feb., 2020 at Dept. of Physics, Govt. Degree College, Kamareddy, TS

17. Invited Talk on "*Spectroscopic study for structure, vibrational analysis and characteristics of some dimethyl- bipyridines and biphenyl-carboxaldehydes using experimental and theoretical methods"* at **International Conference on Physics of Advanced Materials and Molecules (ICPAMM)** during **30-31 January 2020** at Dr. Ambedkar Govt. College, Chennai, India.

16. Invited Talk on "*Spectroscopic study for structure, vibrational analysis and characteristics of some biomolecules using experimental and theoretical methods"* at **Two-day National Workshop on Physics of Materials and Molecules** during **15-16 March 2019** organized by Department of Physics, Kakatiya University, Warangal.

15. Invited talk on *'Raman Scattering and Applications'* at **IAPT sponsored One-day workshop on Physics for Creativity and Innovation - 2019 (PCI-19)** on **2nd March 2019** organized by Dept. of Physics, SRR Govt. Arts & Science College, Karimnagar

14. Invited Talk on *'Characteristics and Applications of Operational amplifiers'* at **One-day workshop on Emerging Trends in Electronics and Instrumentation** on **22nd Feb., 2019** organized by Dept. of Electronics, Acharya Nagarjuna University, Guntur

13. Invited Talk on *'Cathode Ray Oscilloscope and Applications'* **at IAPT One-day Workshop on Physics Practicals on 9th April, 2018**, organized by Kakatiya Government Degree College, Hanamkonda, Warangal.

12. Invited talk on *'Operational Amplifiers, Characteristics and Applications'* on **27th March, 2018** at Department of Physics, South Campus, Telangana University, Nizamabad

11. Chaired the Lecture Sessions at **"Science Academies' Two-week Refresher Course in Experimental Physics"** during **6-21 December 2016** organized by Dept. of Physics, KU, Wgl.

10. Invited Talk on '*CBCS - Quality Enhancement and Sustenance'* at "**State level One day Orientation Programme on CBCS"** on **21st Sept., 2016 organized by** Govt. Pingle College for Women, Waddepalli, Warangal.

9. Invited Talk on '*Success Stories of Great Scientists'* at **"INSPIRE 2015"** on **24th Jan., 2016**, Kakatiya Government Degree College, Hanamkonda.

8. Invited Talk on '*Semiconductor Devices & Logic Circuits' at* **"Refresher Course in Physics for Junior Lecturers"** on 9th Dec., 2015, Govt. Junior College, Hanamkonda.

7. Invited Talk on '*Reforms in Examination System for Transparency, Accountability and Accuracy*' at **"Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States"** on **27th Feb., 2015** at Dept. of Economics, Mahathma Gandhi University, Nalgonda.

6. Chaired the Session at **"Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States"** on 27th Feb., 2015 at Dept. of Economics, Mahathma Gandhi University, Nalgonda.

5. Invited Talk on *'Renewable Energy Resources'* at **"One day National Conference on Emerging Areas of Research in Renewable Energy Resources and Electronics in India"** on **21st Feb., 2015** organized by Dept. of Physics, Mahathma Gandhi University, Nalgonda.

4. Invited Talk on *'Alternate Energy Resources'* at **"INSPIRE 2014"** on **4th Nov., 2014**, Kakatiya Government Degree College, Hanamkonda.

3. Invited Talk on '**Physics Practicals for UG Teachers'** on **Dec., 2010 organized by** Dept. of Physics, Univ. Arts & Science College, Warangal.

2. Invited Talk on *'Mechanics of rigid bodies'* at **"Refresher course for UG Physics Teachers"** on **22nd Oct., 2010** organized by Dept. of Physics, Kakatiya University, Warangal.

1. Invited Talk on *'Communication Systems'* at **"Refresher course for Junior Lecturers" on 16th Oct at** Bala Vikasa, Fathima Nagar, Kazipet, Warangal.

A N N E X U R E – V

Work-shops, Conferences, etc organized

1. Organizing Secretary, **Telangana Science Congress-2025** in collaboration with Telangana Academy of Sciences, Hyderabad at Kakatiya University, Warangal during 19-21 Aug., 2025.
2. Coordinator, **One-day Workshop on National Science Day–2025** on 28/02/2025 by Kakatiya University, Warangal.
3. Coordinator, "**Two-day National Workshop on Physics of Materials and Molecules**" during 15-16 March, 2019 at Department of Physics, Kakatiya University, Warangal.
4. Coordinator, UGC-DAE CSR Two-day '**Awareness Workshop on Diffraction and other Characterization Techniques in Material Science'** during 12-13 April, 2017 at Department of Physics, KU, Warangal.
5. Convener, **MIST-2009**, a 3 day Workshop on Management, Informatics, Science and Technology at Univ. P. G. College, Godavarikhani held during March 4 – 6, 2009.
6. Convener, **Commerce Meet-2008** held on 15th Nov., 2008 at Univ. P. G. College, Godavarikhani.

A N N E X U R E – VI

List of Work-shops / Recharge / Training Programmes, etc attended

22. Mentors Orientation Training Programme (Mentoring of Faculty) during ***1-10 Feb., 2021 organized by National Institute of Technical Teachers Training and Research, UGC, GoI, Chennai***
21. One Day State level Workshop on Redesigning UG Physics Syllabus under Revised CBCS Curriculum on 9th Feb., 2020 at Department of Physics, Govt. Degree College, Kamareddy, TS
20. UGC-DAE CSR Two-day Awareness Workshop on Diffraction and other Characterization Techniques in Material Science during ***12-13 April, 2017 at Department of Physics, Kakatiya University, Warangal.***
19 Faculty Development Program (FDP) on "Signals, Systems and Transform techniques theory with MATLAB during 26-31 Dec., 2016 at E&ICT Academy, NIT, Warangal
18. Science Academie's 82nd Refresher Course on Experimental Physics during ***6-21 Dec., 2016 at Department of Physics, Kakatiya University, Warangal.***
17. State level One-day Orientation Programme on CBCS – Quality Enhancement and Sustenance on ***28th Sept., 2016 at Pingle Govt. College for Women, Warangal***
16. National Workshop on Advanced Analytical and Molecular Techniques during ***30th Nov - 1st Dec. 2015 at Advanced Analytical Lab, Andhra University, Vishakhapatnam***

15. One-day Workshop on SPSS 22 Application on ***5th July, 2014 at Dept. of Computer Science, Kakatiya University, Warangal***

14. Two week ISTE Work-shop on Signals and Systems, organized by IIT, Kharagpur through NMECIT, MHRD, New Delhi during ***02-12 Jan., 2014 at SVS Group of Institutions, Hanamkonda, Warangal***

13. Winter School on Recent Trends in Physics of Atoms, Molecules and Lasers - 2011, Sponsored by UGC under Networking Program during ***9-31 Jan., 2011 at Dept. of Physics, Banaras Hindu University, Varanasi.***

12. One-week Workshop on Physics Practicals for Under Graduate Teachers during ***23-29 Dec., 2010 at Dept. of Physics, Univ. Arts & Science College (KU), Warangal***

11. Two-day Work-shop on Nanoscience & Nanotechnology during ***3rd & 4th Nov., 2010 at Dept. of Physics, Kakatiya University, Warangal.***

10. 67th Orientation Programme sponsored by UGC Academic Staff College during ***4-30 Oct, 2010 at Academic Staff College, Osmania University, Hyderabad.***

9. Training program on Microprocessors, Microcontrollers and Digital Communications during ***13-17 July, 2010 at Dept. of Physics, Kakatiya University, Warangal.***

8. Training program on Microprocessors, Microcontrollers and Digital Communications during ***22-26 Feb., 2010 at Dept. of Physics, Kakatiya University, Warangal.***

7. Workshop on Nuclear energy & Applications during ***21st & 22nd March, 2009 at National Institute of Technology, Warangal.***

6. National Work-shop on Recent Advances Trends in Physics during ***3-4 March, 2008 at Dept. of Physics, Kakatiya University, Warangal.***

5. National Workshop on Recent Advances in Physics during ***3rd & 4th Feb., 2006 at Dept. of Physics, Kakatiya University, Warangal.***

4. Workshop on Physics Practicals on ***3rd Sept., 2005 at Dept. of Physics, KU & Chaitanya Degree College, Hanamkonda***

3. Two-day seminar on Revised Common core Syllabus for UG Courses during ***5-6 August, 2005 at Dept. of Physics, CKM Arts & Science College, Warangal***

2. Workshop on Microprocessors and Applications during ***18-23 Jan., 1999 at Dept. of Physics, Kakatiya University., Warangal***

1. III SERC School in Atomic and Molecular Physics sponsored by DST, Govt. of India during ***11-30 Dec., 1995 at Centre for Advanced Technology (CAT), Indore.***

A N E X U R E – VII

List of International Conferences/Seminars, etc attended

14. 3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023); ***14-16 September 2023, Periyar University, Salem, TN.***

13. International Conference on Crystal Growth and Spectroscopy (ICCGS-2022); ***29-31 August 2022, St. Joseph's College (Autonomous), Tiruchirapalli, TN.***

12. International Conference on Physics of Emerging Materials and Molecules (ICPEMM-2021); ***4-5 March 2021, Sri Vidya Mandir Arts & Science College (Autonomous), Uthangarai, TN.***

11. International Conference on Physics of Advanced Materials and Molecules (ICPAMM); 30-31 Jan., 2020, Dr. Ambedkar Govt. College, Chennai, India

10. 27th Austin Symposium on Molecular structure and Dynamics @ Dallas (ASMD@D); ***3-5 March, 2018, Southern Methodist University, Dallas, Texas, USA.***

9. International Conference on Materials Research and Applications (ICMRA); ***11-13 March, 2016, CMR Technical Campus, Hyderabad.***

8. International Conference on Sceince and Engineering of Materials for Future Needs; ***21-22 Dec., 2015, S.R & B.G.N.R Asts & Science College, Khammam, TS, India***

7. XXVII IUPAP International Conference on Computational Physics (CCP- 2015); ***2-5 Dec., 2015, Indian Institute of Technology (IIT), Guwahati***

6. 5th International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS-2014); ***8-12July, 2014, Dept. of Physics, Mar Ivanios College, Thrivandrum, Kerala***.

5. 66th OSU International Symposium on Molecular Spectroscopy; ***20-24 June, 2011, Ohio State University, Columbus, Ohio, USA.***

4. Optics'11, an International Conference on light; ***23-25 May, 2011, National Institute of Technology, Calicut, Kerala, India.***

3. International Symposium on Advances in Physics; ***25th Feb., 2006, Dept. of Physics, N A S College (CCS University), Meerut, UP, India***

2. International Conference on Perspectives in Vibrational Spectroscopy; 26-28 Feb.,2006 at Meerut University, Meerut.

1. International Conference on Spectroscopy: Perspectives & Frontiers; ***3-5 Jan., 1996 at BARC, Bombay.***

A N E X U R E – VIII

List of National Conferences/Seminars, etc attended

17. **National Conference on Advanced Materials and Spectroscopy (NCAMS 2024) held** during 22-23 August 2024 organized by the Departments of Physics & Chemistry, Dr. R.K.S. College o Arts & Science, Kallakurichi, Tamilnadu and Indian Spectro Physics Association (ISPA).

16. National Seminar on Materials Characterization Techniques (NSMCT 2024) during ***6-7 March 2024 organized by Department of Physics, Acharya Nagarjuna University, Gunturu, AP.***

15. National Conference on Science for Materials and its Advancements in Recent Trends (NCSMART-202**3)** during ***24-25 Feb., 2023 organized by Dept. of Physics, Periyar University Centre for Post-Graduate and Research Studies, Dharmapuri, Tamilnadu.***

14. National Conference on Recent Advances in Applied Nano Materials (RAANM – 2018); ***16-17 Feb., 2018, Dept. of Physics, University Science College (OU), Saifabad, Hyderabad.***

13. Two Day National Seminar on Issues and Challenges of Higher Education in Newly Formed States; ***26-27 Feb., 2015, Dept. of Economics, Mahathma Gandhi University, Nalgonda.***

12. A One Day National Conference on Emerging Areas of Research in Renewable Energy Resources and Electronics India, ***21st Feb., 2015, Dept. of Physics, Mahathma Gandhi University, Nalgonda***

11. Two-day National seminar on Recent Advances in Physics; ***6-7, Nov., 2014, Dept. of Physics, Kakatiya University, Warangal***

10. National Conference on Advanced Materials & Technologies; ***19-21 Nov., 2012, Kakatiya University, Warangal.***

9. Two Day National Seminar on Recent Trends in Solid State Physics; ***13-14 Feb., 2012, Kakatiya University, Warangal.***

8. National Conference on Current Trends in Condensed Matter Research; ***20-22Sept., 2004 at Univ. Arts & Science College, Warangal.***

7. National Seminar on Current Trends in Physics; ***12-13eb., 2004 at Dept. of Physics, Kakatiya University., Warangal.***

6. XIII National Conference on Atomic and Molecular Physics; ***16-20 Jan., 2001 at Indian Association for Cultivation of Sciences (IACS), Kolkata.***

5. National Conference on Recent Trends in Vibrational Spectroscopy; ***26-28 Feb., 1996 at Meerut College (Meerut Univ.), Meerut***

4. National Conference on Current Trends in Atomic and Molecular Physics; ***21-23ec., 1993 at Baba Atomic Research Centre (BARC), Bombay.***

3. IX National Conference on Atomic and Molecular Physics; ***14-18 Dec., 1992 at Baba Atomic Research Centre (BARC), Bombay.***

2. Symposium on Molecular Spectroscopy; ***9th & 10th May., 1992 at M.M. College (Meerut Univ.) Modinagar.***

1. National Seminar on Molecular Spectroscopy; ***15-17 March., 1991 at Banaras Hindu University, Varanasi.***