
CURRICULUM VITAE

Dr. P. RAGHAVA RAO

Department of Physics
Krishna University Dr. M.R. Appa Row College of
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ANDHRA PRADESH,
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PERSONAL PROFILE:

- Name : PARITALA RAGHAVA RAO
- Father's Name : ANJIAH
- Phone No. : +91-9963394025
- Date of Birth : 15-06-1983
- Marital Status : Married
- Languages known : English, Telugu
- Nationality : Indian

Academic Qualifications	University	College / Institution	Year of passing	% of marks
Ph.D	Acharya Nagarjuna University, Guntur	A.N.U. P.G. Centre Nuzvid	2012	'A' Grade
M.Sc	Acharya Nagarjuna University, Guntur	A.N.U. P.G. Centre Nuzvid	2007	74.55% (I Div. with distinction)
B.Sc. (M.P.C.)	Acharya Nagarjuna University, Guntur	V.V. & M. College, Ongole	2004	61.55%
Intermediate (M.P.C.)	Board of Intermediate Education	Gowtham Jr. College, Guntur	2001	70.6%
SSC	Board of Secondary Education	Govt. High School, Santhamaguluru	1999	77.3%

Ph.D. Thesis Title: “*Spectroscopic and electrical properties of Na₂SO₄–BaO–P₂O₅: Fe₂O₃ glass system & Role of modifier oxide in emission spectra and kinetics of Sm³⁺ and Er³⁺–Ho³⁺ co-doped Na₂SO₄–BaO–P₂O₅ glasses*”

Research experience: 15 years

Teaching experience: 16 years

Research activities : Ph.D., Electrical and Spectroscopic properties of glass materials under the guidance of Prof. N. Veeraiah, Department of Physics, Acharya Nagarjuna University – Nuzvid Campus.

❖ Worked as a **Research Fellow** in a research project sponsored by DAE - BRNS, Mumbai, From December 2010 to July 2012.

❖ Publications : **33**

❖ **Life member** - Luminescence Society of India from 2018.

❖ Elected as **Associate Fellow** for Science & Technology (**APAS - 2018**)

❖ Seminars attended & presented papers

➤ *International conferences* : **11**

➤ *National Conferences* : **31**

➤ *Workshops attended* : **10**

Experience in teaching:

➤ Worked as Lecturer in Physics at Sri Siddhartha Degree College, Nuzvid, for the period of 2007 to 2009.

➤ Worked as Guest Faculty (B-Category) in Physics Department, A.N.U. Nuzvid Campus, for the period of 27-06-2008 to 26-04-2012.

➤ Worked as Guest Faculty in Physics Department, Krishna University Dr. MRAR P.G. Centre, Nuzvid, for the period of 26-07-2012 to 20-12-2018.

➤ Worked as Academic Consultant in the Department of Physics, Krishna University Dr. MRAR P.G. Centre, Nuzvid, from 21-12-2018 to 26-06-2020.

➤ Worked as Assistant Professor (Ad-hoc) in the Department of Physics, KRU Dr. MRAR College of Post Graduation Studies Nuzvid from 27-06-2020 to 29-04-2023.

➤ Working as Assistant Professor (Contract) in the Department of Physics, KRU Dr. MRAR College of Post Graduation Studies Nuzvid from 30-04-2023 to till date.

Administrative Experience:

Name of the position	Institution/University	Period	
		From	To
Program Officer NSS Unit-I KRU Dr. MRAR PG Centre Nuzvid.	Krishna University Machilipatnam	18-07-2019	28-02-2022.
Coordinator Department of Physics KRU Dr. MRAR PG Centre Nuzvid.	Krishna University Machilipatnam	01-05-2021	30-03-2022
Coordinator Department of Physics, KRU Dr. MRAR PG Centre Nuzvid.	Krishna University Machilipatnam	17-07-2023	Till date

Guest lectures:

- Delivered a Guest lecture on Quantum Mechanics at A.N.R. College, Gudivada on 9-10-2015.
- Delivered a Guest lecture on Modern Physics at DAR College, Nuzvid on 12-02-2020.
- Working as Academic Counselor at Indira Gandhi National Open University (IGNOU) study centre (33034), Dharma Appa Rao College, Nuzvid.

Area of Research: GLASS SCIENCE

Expertise in synthesis of glasses by melt-quenching technique and characterizing them by DSC of inorganic glass systems like phosphate, borate etc.,

1. Evaluation of insulating character of glass materials by means of dielectric studies (viz., constant, loss and ac conductivity as a function of temperature and frequency) and the structural evaluation of the glass materials.
2. IR, Raman, ESR, optical absorption spectra of glass systems doped with different transition metal ions and to probe the local structure of the dopants.
3. Luminescence spectra of glass materials doped with some rare earth ions and to evaluate transition probabilities, emission cross section etc.,

❖ **Instruments handled:**

Capable of handling various sophisticated equipments such as LCR dielectric meter, JASCO Spectrophotometer, PTI Fluorescence spectrometer, JASCO IR spectrometer, Abbe refractometer and High temperature furnace.

List of Publications

1. Fluorescence features of Sm^{3+} ions in $\text{Na}_2\text{SO}_4\text{-MO-P}_2\text{O}_5$ glass system-influence of modifier oxide
P. Raghava Rao, G. Murali Krishna, M.G. Brik, Y. Gandhi and N. Veeraiah
Journal of Luminescence 131 (2011) 212-217.
<https://doi.org/10.1016/j.jlumin.2010.09.044>
2. Role of modifier oxide in emission spectra and kinetics of Er-Ho codoped $\text{Na}_2\text{SO}_4\text{-MO-P}_2\text{O}_5$ glasses
P. Raghava Rao, N. Venkatramaiah, Y. Gandhi, V. Ravi Kumar, I.V. Kityk and N. Veeraiah
Spectrochimica Acta Part A: Molecular and Bimolecular Spectroscopy, 86 (2012) 472– 480. <https://doi.org/10.1016/j.saa.2011.10.071>
3. Electrical and Spectroscopic properties of Fe_2O_3 doped $\text{Na}_2\text{SO}_4\text{-BaO-P}_2\text{O}_5$ glass system
P. Raghava Rao, L. Pavic, A. Mogoš-Milanković, V. Ravi Kumar, I.V. Kityk and N. Veeraiah
Journal of Non-Crystalline Solids, 358 (2012) 3255-3267.
<https://doi.org/10.1016/j.jnoncrysol.2012.08.032>
4. Influence of titanium ions on spectroscopic and dielectric properties of $\text{PbO-Bi}_2\text{O}_3\text{-As}_2\text{O}_3$ glasses
M. Srinivasa Reddy, M. Rami Reddy, M. Nagarjuna, **P. Raghava Rao**
IOP Conf. Series: Materials Science and Engineering 2 (2009) 012048.
<https://iopscience.iop.org/article/10.1088/1757-899X/2/1/012048>
5. Influence of tungsten on the emission features of Nd^{3+} , Sm^{3+} and Eu^{3+} ions in $\text{ZnF}_2\text{-WO}_3\text{-TeO}_2$ glasses
Y. Gandhi, I.V. Kityk, M.G. Brik, **P. Raghava Rao** and N. Veeraiah
Journal of Alloys and Compounds, 508 (2010) 278-291.
<https://doi.org/10.1016/j.jallcom.2010.08.137>
6. Electrical conduction and other related properties of silver ion doped $\text{LiF-V}_2\text{O}_5\text{-P}_2\text{O}_5$ glass system
M. Nagarjuna, **P. Raghava Rao**, Y. Gandhi and N. Veeraiah
Physica B, 405 (2010) 668–677.
<https://doi.org/10.1016/j.physb.2009.09.084>

7. Investigation on spectral features of tungsten ions in PbO–Bi₂O₃–As₂O₃ glass matrix
N. Srinivasa Rao, **P. Raghava Rao**, Y. Gandhi, Ch. Srinivasa Rao, G. Sahaya Baskaran, V. Ravi Kumar and N. Veeraiah
Physica B, 406 (2011) 4494–4499.
<https://doi.org/10.1016/j.physb.2011.09.014>
8. Piezoelectric and elastic properties of ZnF₂–PbO–TeO₂: TiO₂ glass ceramics
N. Narasimha Rao, I. V. Kityk, V. Ravi Kumar, **P. Raghava Rao**, B.V. Raghavaiah, P. Czaja, P. Rakus and N. Veeraiah
Journal of Non-Crystalline Solids, 358 (2012) 702–710.
<https://doi.org/10.1016/j.jnoncrysol.2011.11.019>
9. The structural influence of aluminium ions on emission characteristics of Sm³⁺ ions in lead aluminium silicate glass system
K. Bhargavi, M. Srinivasa Reddy, **P. Raghava Rao**, N. Narasimha Rao, M. Sundara Rao, V. Ravi Kumar and N. Veeraiah
Materials Research Bulletin, 47 (2012) 267-273.
<https://doi.org/10.1016/j.materresbull.2011.11.031>
10. Luminescence properties of Tb³⁺ doped Sr₂SnO₄ green phosphor in UV/VUV regions
M. Srinivas, B. Appa Rao, M. Vithalb and **P. Raghava Rao**
Luminescence: The Journal of Biological and Chemical Luminescence
DOI: 10.1002/bio.2401, 28 (2013) 597-601.
<https://doi.org/10.1002/bio.2401>
11. Thermo luminescence study of MnO doped borophosphate glass samples for radiation dosimetry
B.J.R. Swamy, Bhaskar Sanyal, Y. Gandhi, R.M. Kadam, V. Natarajan, **P. Raghava Rao** and N. Veeraiah
Journal of Non-Crystalline Solids 368 (2013) 40–44
<https://doi.org/10.1016/j.jnoncrysol.2013.02.020>
12. On some physical properties of TiO₂ mixed lead tellurite glass ceramics
V. Ravi Kumar, N. Narasimha Rao and **P. Raghava Rao**
International Journal of Luminescence and its applications 32 (2013) 2277–6362. ISSN No. 2277 – 6362.
https://drive.google.com/file/d/1Jq_3hPGrID07m_-kykCHMcEcbZLQcWeL/view?usp=sharing
13. Emission characteristics of Dy³⁺ ions in lead antimony borate glasses,
M. Chandra Shekhar Reddy, B. Appa Rao M.G. Brik, A. Prabhakar Reddy, **P. Raghava Rao**, C.K. Jayasankar and N. Veeraiah
Applied Physics B – Lasers and Optics, DOI 10.1007/s00340-012-4983.
<https://link.springer.com/article/10.1007/s00340-012-4983-z>
14. Effect of alkali-earth modifier ion on electrical, dielectric and spectroscopic properties of Fe₂O₃ doped Na₂SO₄–MO–P₂O₅ glass system

- L. Pavic', A. Moguš-Milankovic', **P. Raghava Rao**, A. Šantic', V. Ravi Kumar, N. Veeraiah
Journal of Alloys and Compounds, 604 (2014) 352–362.
<https://doi.org/10.1016/j.jallcom.2014.03.061>
15. Effect of Doping Ti^{3+} Ions on Spectroscopic Behavior of Lead Bismuth Phosphate Glasses
V. Ravi Kumar, G. Naga Raju, S.V.G.V.A.Prasad, **P.Raghava Rao**, N. Narasimha Rao
International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Paper ID: ATOM-201405. [Corpus ID: 6586052](https://doi.org/10.2319/IJSR.2014.050005)
https://www.ijsr.net/conf/ATOM2014/ATOM2014_05.pdf
16. Influence of Mo^{5+} ions on Spectroscopic Properties of $PbO-ZnF_2-P_2O_5$ glass system
P. Venkateswara Rao, G. Naga Raju, **P. Raghava Rao**, N. Narasimha Rao, P. Syam Prasad
Karbala International Journal of Modern Science 1 (2015) 101–109.
<https://doi.org/10.1016/j.kijoms.2015.09.003>
17. Structural studies of mixed glass former $ZnO-B_2O_3-P_2O_5:TiO_2$ glasses
G. Naga Raju, V. Ravi Kumar, N. Narasimha Rao, **P. Raghava Rao**, P. Sinrivasa Rao and P. Venkateswara Rao
International Conference on Science and Engineering of Materials for Future Needs (ICSEMF -2015), ISBN 978-1-329-77555-8.
https://drive.google.com/file/d/1v714g_mnrtCFnWWqrdJt-kiZKY2iFIK/view?usp=sharing
18. Spectroscopic and physical properties of erbium doped $Li_2O-BaO-P_2O_5$ glasses
N.Ch. Ramesh Babua, **P. Raghava Rao**, N. Narasimha Rao, B.J.R.S.N. Swami, M.Vasu Babu, G. Naga Raju, N. Veeraiah
Materials Today: Proceedings 5 (2018) 26314–26321
<https://doi.org/10.1016/j.matpr.2018.08.082>
19. Renewable energy sources – Natural resource management
P. Raghava Rao, N. Narasimha Rao, B. J.R.S.N. Swamy, A. Chitti Babu & Kumara Raja Kandula
RESEARCH REVIEW International Journal of Multidisciplinary ISSN: 2455-3085 (2019). [\(DOI: 10.31305/rrijm\)](https://doi.org/10.31305/rrijm)
<https://old.rrjournals.com/conference-proceeding/renewable-energy-sources-natural-resource-management/>
20. The dielectric properties of $PbO-B_2O_3-Bi_2O_3$ glasses doped with V_2O_5
P. Raghava Rao, N. Narasimha Rao, B.J.R.S.N. Swamy, N. Ch. Ramesh Babu, A. Chitti Babu, N. Veeraiah.
Recent advances in Material Science:Conf. Proceedings ISBN:978-93-87769-51-9
<https://drive.google.com/file/d/1w-RRRogeMHiG3AUQnAtgeA7Ph1EbWqrFK/view?usp=sharing>

21. Influence of silver ions on dielectric properties of $\text{CaF}_2\text{-MoO}_3\text{-P}_2\text{O}_5$ glass system
N. Narasimha Rao, **P. Raghava Rao**, B.J.R.S.N. Swamy, V. Ravi Kumar
Recent advances in Material Science:Conf. Proceedings ISBN:978-93-87769-51-9
https://drive.google.com/file/d/1ZTGANyFaUgQmvp_FT9eLqt6KAGAvpRQa/view?usp=sharing
22. Optical properties of Tm^{3+} ions in MO (M= Li, Na & K) – A_2O_3 – P_2O_5 glass systems
P. Raghava Rao, N. Narasimha Rao,, B.J.R.S.N.Swamy , N.Ch. Ramesh Babu, A. Chittibabu, T. Raghavendra Rrao, T. Sambasiva Rao
Journal of Advanced Research in Polymer and Textile Engineering 1(2020) 21-29.
23. The Influence of Vanadium Ions in Spectral Properties of $\text{ZnO-Sb}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses
N. Narasimha Rao, **P. Raghava Rao**, B. J.R.S.N. Swamy, A. Chitti Babu, T. Sambasiva rao, N. Ch.Ramesh Babu.
International Journal for Modern Trends in Science and Technology, 6 (2020) 201-207. <https://doi.org/10.46501/IJMTST060930>
24. Optical studies of chromium doped zinc oxy fluoro borate glasses – A possible disordered material for tunable LASERS
P. Naresh, S.K. Fakruddin Babavali, A. Chitti Babu, **P. Raghava Rao**, N. Narasimha Rao
Materials Today Proceedings 46 (2021) 806-810.
<https://doi.org/10.1016/j.matpr.2020.12.769>
25. In-vitro bioactivity and antibacterial properties of $\text{CaF}_2\text{-CaO-B}_2\text{O}_3\text{-P}_2\text{O}_5\text{-SrO}$ glass system-influence of Ta_2O_5
B. Madhavi, A. Siva Sesha Reddy, P. Syam Prasad, M. Mohan Babu, **P. Raghava Rao**, V. Ravi Kumar & N. Veeraiah
Journal of Non-Crystalline Solids 566 (2021) 120881
<https://doi.org/10.1016/j.jnoncrysol.2021.120881>
26. Influence of Ti^{3+} ions on Spectroscopic Properties of $\text{PbO-Al}_2\text{O}_3\text{-B}_2\text{O}_3$ Glasses Systems
N. Narasimha Rao, **P. Raghava Rao**, B. J.R.S.N. Swamy, P. Naresh, A. Chitti Babu & N. Ch.Ramesh Babu
American Institute of Physics Conference Proceedings 2369 (2021) 020049.
<https://doi.org/10.1063/5.0061412>
27. Optical Absorption Spectra of $\text{PbO-NaF-B}_2\text{O}_3$ Glass doped with Ln^{3+} ($\text{Sm}^{3+}/\text{Ho}^{3+}$) Ions
N. Narasimha Rao, B. J.R.S.N. Swamy, **P. Raghava Rao**
International Journal of Scientific Research in Science, Engineering and Technology 9 (2022)120-125.
<https://doi.org/10.32628/IJSRSET229135>

28. Photoluminescence Spectrum of PbO-NaF-B₂O₃ Glass Doped with Ln³⁺ (Sm³⁺/Ho³⁺) Ions
N. Narasimha Rao, B. J.R.S.N. Swamy , **P. Raghava Rao** , P. Naresh, A. Chitti Babu
Journal of Material Sciences & Engineering 11 (2022) 619
Doi: 10.37421/jme.2022.11.619
<https://www.hilarispublisher.com/open-access/photoluminescence-spectrum-of-pbonafb2o3-glass-doped-with-ln3-sm3ho3-ions-87747.html>
29. Structural Phase Modulation in Lanthanum- and Tin-Cosubstituted Pb(Zr,Ti)O₃ Ceramics and its Energy and Pyroenergy Storage Properties
K. Kumara Raja, S. Tukaram, N. Mohan, K. Lokeswara Rao, A.A. Anees, K.M. Alotaibi, A.A. Abdullah, A. Chitti Babu, N. Narasimha Rao, V. Sudharshan, J. Shankar, **P. Raghava Rao**, & B. Rajasekhar
Phys. Status Solidi A 2022, 2200421, <https://doi.org/10.1002/pssa.202200421>
30. Sonochemical synthesis of indolo[1,2- a]quinoxaline derivatives in the presence of Amberlyst-15: Their evaluation as potential cytotoxic agents
Ch. Raviteja, K.R.S. Prasad, P. Raghava Rao, A.V. D. Nagendra Kumar, M. Bhuvan Tej, K. Ravikumar, M. V. Basaveswara Rao, P. Manojit Pale
Journal of Molecular Structure 1250 (2022) 131803
<https://doi.org/10.1016/j.molstruc.2021.131803>
31. Physical and spectroscopic properties of PbO –ZnF₂ – B₂O₃ glasses doped with CuO
N. Narasimha Rao , P. Naresh , **P. Raghava Rao** , B.J.R.S.N. Swamy , A. Chitti Babu
Materials Today Proceedings (2023)
<https://doi.org/10.1016/j.matpr.2023.04.382>
32. Dielectric features of ZnO – CaF₂ – R₂O(R = Li, Na & K) – B₂O₃: CuO glasses
P. Naresha, N. Narasimha Rao, **P. Raghava Rao** , B.J.R.S.N. Swamy , A. Chitti Babu, B.Suresh
Materials Today Proceedings (2023)
<https://doi.org/10.1016/j.matpr.2023.06.046>
33. Influence of modifier oxide on spectroscopic features of ZnO–CaF₂–CuO– B₂O₃: R₂O glasses (R=Li, Na & K)
N. Narasimha Rao, P. Naresh , **P. Raghava Rao**, B.J.R.S.N. Swamy, A. Chitti Babu
American Institute of Physics Conference Proceedings 2768(2023)020005
<https://doi.org/10.1063/5.0148341>

M.Sc. Projects Supervised: Dr. P. Raghava Rao
Assistant Professor (Contract)
Department of Physics,
Krishna University Dr. M.R. Appa R CPG Studies,
Nuzvid – 521 201.

M.Sc. Project Dissertation			
1	Ms. M. Kalyani Ms. M. Mamatha Ms. M. Sravani Ms. O. Rajakumari Ms. P. Srivinya Mr. P. Gopala Krishna Ms. K. Yamuna	May - 2018 Krishna University	Spectroscopic and physical properties of erbium doped Li ₂ O-BaO-P ₂ O ₅ glasses
2	Ms. P. Naga Lakshmi Mr. L. Ramesh Mr. R. Naga Madhu Mr. Sk. Maha Basha Ms. T. Amani	May - 2018 Krishna University	Influence of Pr ³⁺ ions on spectroscopic properties of PbO-ZrO ₂ -SiO ₂ glasses
3	Ms. T. Divya Mr. J. Venkata Srinivasa Rao Ms. V. Lakshmi Harika Ms. Y. Sukanya Ms. Y. Anusha Mr. Y. Suneel	May - 2018 Krishna University	Influence of Sm ³⁺ ions on spectroscopic properties of PbO-Sb ₂ O ₃ glasses
4	Ms. A. Savathi Mr. A. A.S. Sai Jaganath Ms. A. Sridevi Mr. B. Venkata Rao Ms. B. Naga Rani Mr. Ch. Gopala Krishna	May - 2019 Krishna University	Spectroscopic investigations on copper oxide doped ZnO-CaF ₂ -B ₂ O ₃ glass system
5	Mr. J. Naresh Gowd Ms. K. Naga Divya Ms. K. Sirisha Mr. K. Surendra	September - 2020 Krishna University	Spectroscopic investigations on ZnO-Al ₂ O ₃ -B ₂ O ₃ glasses doped with TiO ₂
6	Ms. D. Raja Mounika Ms. G. Lakshmi Mr. G. Kishore Babu Ms. J. Pravallika Mr. J. Vamsi Krishna Ms. J. V. S. Harika Mr. K. Ravi	September - 2021 Krishna University	Dielectric dispersion in MnO doped Na ₂ O – B ₂ O ₃ glasses
7	P. Venkat D. Sushma G. Satyanarayana K. Shainy K. Bhanu K. Chaitanya K. Mounika	August – 2022 Krishna University	Influence of Ti ³⁺ ions on Spectroscopic properties of PbO-Al ₂ O ₃ -B ₂ O ₃ glasses

Patents: Filed

1. Apparatus for sanitizing articles with rotatable inner chamber to evenly distribute UV radiation
P. V. Nanda Kishore, A. Chitti Babu, J. Ashok, **P. Raghava Rao**, N. Narasimha Rao, B. J.R.S.N.Swamy, N. Rajeswara Rao, P. Naresh & S. N.S. Manasa
Application No: 202141022452 A.
2. A study of magnetic properties of Dy doped YFeO₃ multiferroics
G. Padmasree, D. Lakshmi, M. Sumalatha, A. Chitti Babu, **P. Raghava Rao**, N. Narasimha Rao, B. J.R.S.N. Swamy, N. Ch. Ramesh Babu
Application No: 202241003612 A.
3. Certificate of Registration for a UK Design (Wall Mountable Autoclave)
Dr. Sampath Chinnam, Dr. Arshad Farid, Dr. Sridevi Chigurupati, Dr. Amjad Khan, Dr. Nagaraju Kottam, Dr. Sara Zahid, **Dr. Raghava Rao Paritala**
Application No: 6287618

Conferences/Seminars/Workshops attended & Presented papers

❖ List of International conferences : 11

1. International Conference on Luminescence and its applications (ICLA-2008) organized by NPL, February – 2008, **Delhi.**
2. International Seminar on Science and Technology of Glass materials (ISSTGM-2009), organized by the Department of Physics, March – 2009, ANU & ANU Nuzvid Campus.
3. International Work shop & Symposium on the Synthesis and Characterization of Glass/Glass Ceramics (IWSSCGGC-2010), organized by CMET, July– 2010, **Pune.**
4. International Conference on Multi Functional Materials (ICMM-2010), organized by Department of Physics, **Banaras Hindu University**, December 2010, **Varanasi.**
5. International Conference on specialty Glass and Optical fiber: Materials, Technology & Devices (ICGF-2011), organized by CGCRI, August-2011, **Kolkata.**
6. International Conference on Physics of Materials and Materials based Device Fabrication (ICPM-MDF-2012), organized by Department of Physics, Shivaji University, January-2012, **Kolhapur.**
7. International Conference on Luminescence and its Applications (ICLA-2012), organized by RGUKT, IICT and Luminescence Society of India, February-2012, **Hyderabad.**

8. International Seminar on Glasses and other Functional Materials (ISGFM-2014) organized by the Department of Physics, Acharya Nagarjuna University, December-2014, Guntur, A.P.
9. 2nd Andhrapradesh Science Congress (APSC-2016) held at P.B. Siddhartha College of Arts & Science, organized by A.P. Academy of Science in association With Dr. N.T.R. University of Health and Science, A.N.U & K.R.U, November -2016, **Vijayawada.**
10. Indian Science Congress Association (104th Indian Science Congress) held at S.V. University, January-2017, **Tirupati.**
11. The International Seminar on “Materials for the Societal Advancement with Emphasis on Health & Energy” organized by P.B. Siddhartha College of Arts & Science, February-2017, Vijayawada.

❖ **List of National Conferences : 31**

1. National Symposium on Science & Technology of Glass and Glass-Ceramics (NSGC-08) organized by BARC, October – 2008, **Mumbai.**
2. UGC Sponsored National Seminar on Physics and Chemistry of Materials organized by the Sri Velagapudi Ramakrishna memorial College, July – 2009, Nagaram.
3. National Seminar on Display Phosphors and its Applications (NSDPA-2009), organized by the Vivekananda Degree College, October – 2009, Bangalore.
4. UGC National Seminar on “Nanomaterials & Their Applications” (NSNMA-2009) organized by Dharma Apparao College, December – 2009, Nuzvid.
5. National seminar on Novel materials for display applications, organized by Department of Physics, SVRM College, October-2010, Nagaram.
6. National Conference on Luminescence and its Applications (NCLA-2011), organized by Department of Physics, Pt. Ravishankar Shukla University, February-2011, **Raipur.**
7. Theme Meeting on Laser Glass Science & Technology organized by Srivenkateswara University, March-2011, **Tirupati.**
8. National Seminar on Chemistry our Life, our Future (CLF-2011), organized by Department of Chemistry, Krishna University – Dr. M.R.A.R. Campus, December-2011, Nuzvid.
9. National Seminar on “Recent Trends in Advanced Materials”, organized by Department of Physics and Chemistry, Sir. C.R.Reddy Autonomous College, January-2012, Eluru.
10. “AP Science Congress – 2012” organized by Andhra Pradesh Akademi of Sciences & Acharya Nagarjuna University, November – 2012, Guntur.

11. National Seminar on “Multi Functional Materials” (NSFM-2013), organized by Department of Physics, Andhra Loyola College, March-2013, Vijayawada.
12. National Seminar on “Recent Trends in Surface Science and Nanotechnology” (RTSSN-2013), organized by Department of Science and Humanities, PCM College of Engineering & Technology, November-2013, Vijayawada.
13. State level seminar on “Recent trends in materials science” organized by the Department of Physics, Ideal College of Arts & Science, February – 2014, Kakinada.
14. National Seminar on “The Role of Natural Product Chemistry in Drug Discovery” (RNPCDD-2014) organized by Dept. of Chemistry, Krishna University, September-2014.
15. National Seminar on “ Development of Advanced Materials in Physics & Electronics and their applications” organized by Department of Physics & Electronics, KBN College, October-2014, Vijayawada.
16. National Conference on Advanced Technology Oriented Materials (ATOM – 2014), organized by Department of Physics, Crystal Growth and Nano Science Research Centre, Government College, December-2014, Rajahmundry.
17. National Conference on “Emerging Frontiers of Materials Science” organized by Department of Physics, Maris Stella College, February-2015, Vijayawada.
18. National Seminar on “Emerging Techniques in Physics Teaching and Training” (ETPTT-2015) organized by the Department of Physics, S.V.R.M. College, August-2015, Nagaram.
19. One Day Seminar on “Chemistry for the Sustainable Development” (CSD-2015) organized by The Royal Society of Chemistry (London)-DS & APAS held at Krishna University Dr.MRAR PG Centre, Nuzvid, Septembetr-2015.
20. National Conference on Need and role of Nano Sciences in the present era (NRNSPE) organized by the Department of Physics, P.B. Siddhartha College of Arts & Science, October-2015, Vijayawada.
21. National Seminar on “Recent Trends in Applied Physics” organized by K.R.K. Govt. Degree College, December–2015, Addanki.
22. National Seminar on Characterization Techniques of Materials (NSCTM-2016) organized by the Department of Nanotechnology, Acharya Nagarjuna University, March – 2016, Guntur.
23. One day National Seminar on Materials Science & Technology (NAMASTE-2016) organized by Department of Physics, V.R. Siddhartha Engineering College, November-2016, Vijayawada.

24. Recent trends in Material Science, Nano Science & Nano Technology (RTMSNN-2017) organized by Department of Chemistry, A.G. & S.G. Siddhartha Degree College of Arts & Science, January-2017, Vuyyuru.
25. National Seminar on “Advances in Biomaterials & Characterization Techniques (ABCT-2017)” organized by Department of Physics, Andhra Loyola College, January-2017, Vijayawada.
26. National Seminar on “Physics & Chemistry of Non-Crystalline Materials (PCNCM-2017)” organized by Department of Physics Chemistry, K.V.R. College, Nandigama, 1st & 2nd December -2017.
27. National Conference on “Luminescence and it’s applications” (NCLA-2018), organized by CSIR-National Institute for Interdisciplinary Science & Technology, Trivandrum, 14th – 16th February,2018.
28. National Seminar on “Recent advances in materials physics” (RAMP-2018), organized by Dept. of Physics, Sri Krishna Devaraya University, Anantpur, 24th & 25th February, 2018.
29. “AP Science Congress – 2018” organized by Andhra Pradesh Akademi of Sciences & Yogi Vemana University, November – 2018, Kadapa.
30. National Seminar on “Recent Advances in Material Science” organized by Department of Physics, JKC College, February-2019, Guntur.
31. National Seminar on “Optical characterization techniques” (NSOCT-2019) organized by Department of Physics, Andhra Loyola College, March-2019, Vijayawada.

❖ **List of Workshops attended : 10**

1. Workshop on Analytical Techniques on Materials Characterization, organized by Andhra Loyola College, February – 2009, Vijayawada.
2. National Workshop on “Soft Materials”, organized by J.M.J. College for Women, January-2012, Tenali.
3. National Workshop on “Fundamentals & Applications of Nano Materials” organized by Department of Nano-Technology, ANU-Nagarjuna Nagar, March-2012, Guntur.
4. “Work shop on Intellectual Property and Innovation Management in Knowledge Era” organized by NRDC and Krishna University Dr. MRAR PG Centre, February-2013, Nuzvid.
5. Work Shop on “Condensed Matter Physics & Embedded Systems” organized by The Department of Physics & Electronics of P.B. Siddhartha College of Arts & Science, December – 2013, Vijayawada.

6. Work Shop on “Mathematica and its Computations in the Present Era” (MCPE-2013) organized by Dept. of Mathematics, Krishna University Dr.MRAR PG Center, December-2013, Nuzvid.
7. National Work shop on “Green Chemistry, its need and role in our society” organized by Department of Chemistry, D.A.R. College, February – 2014, Nuzvid.
8. National Work Shop on “Advances in Materials Processing” organized by Dept. of Nano-Technology, Acharya Nagarjuna University, March-2014, Guntur.
9. Science Academies Lecture Work Shop on “Applications of Quantum Mechanics to Optics” organized by Dept. of Physics & Electronics, KBN College, February-2019, Vijayawada.
10. A One Day Faculty Development Programme on “Effective writing of Research proposals” organized by NAIPUNYA at Ramachandra College of Engineering, November-2019, Eluru.

ONLINE: Conferences/Course/FDP/Workshops attended

Conference: 01

1. First International Virtual Conference on Nanomaterials (FIVCON – 2020), Organized by Dept. of Nanotechnology, ANU, Guntur, A.P., during 10th – 12th September, 2020.

Courses: 04

2. Course on “Learning Physics through Simple Experiments” organized by Indian Institute of Technology, Kanpur, from April 2 to June 10, 2020.
3. Course on “Classical Electromagnetism – 1 (Electrostatics) ” organized by Indian Institute of Technology, Kanpur, from August 15 to December 13, 2020.
4. Course on “Classical Mechanics – 1 (Magnetostatics) ” organized by Indian Institute of Technology, Kanpur, from January 26 to April 25, 2021
5. Course on “Classical Electromagnetism – 1 (Electrostatics) ” organized by Indian Institute of Technology, Kanpur, from August 15 to December 25, 2022.

FDP: 13

1. National Level Faculty Development Program on Tools for Online Class Room Post Covid-19 organized by Dept. of Computer Science, P.B. Siddhartha College of Arts & Science, Vijayawada from 18th – 20th May, 2020.
2. One week online Faculty Development Program on Materials: Recent Trends & Engineering Applications, organized by Gokaraju Rangaraju Institute of Engineering and Technology during 02 - 07 June, 2020.
3. 5-Day Faculty Development Program on “Recent Trends in Applied Physics & Material Science (RAM-2020)”, conducted by Dept. of BS & H, QISCET, Ongole from 08th – 12th June, 2020
4. One Week Faculty Development Program on “Emerging Trends in Sciences - Usage of Research Tools and Techniques”, organised by Department of Freshman Engineering, Vardhaman College of Engineering, Hyderabad, during 15th – 20th June, 2020.
5. One Week online International Faculty Development Programme “Statistical Trends and Practices in Science and Technology”
Organized by Department of Basic Sciences and Humanities, Aditya Institute of Technology and Management, from 04th - 08th July, 2020.
6. One week online Faculty Development Program on “ Emerging Technologies and Changing Scenario on Material Research” organized by Dept. of Basic Sciences, Santhiram Engineering College, Nandyal, from 27th July to 01st August 2020.
7. One Week Online FDP on “Engineering Physics and Materials Science”, organized by Department of Physics, Chaitanya Bharathi Institute of Technology from 03-08-2020 to 07-08-2020.
8. One week Faculty Development Program on “Nano Hybrid Composite Materials Characterization & Applications” organized by Department of Mechanical Engineering from 24th - 28th August, 2020.
9. Three days Faculty Development Program on Virtual Physics Labs sponsored by TEQIP-III (NPIU-MHRD, Govt. of India) and organized by JNTUA College of Engineering Ananthapuramu, A.P. in association with University College of Engineering & Technology, Bikaner Technical University, Bikaner (Raj.) from 07th - 09th September, 2020.
10. One week Faculty Development Program on “Advances in Atmospheric Physics and Chemistry”, organized by Dept. of Basic Sciences , Santhiram Engineering College, Nandyal, from 05th - 09th October, 2020.

11. Five-day Faculty Development Program on “Synthesis of Advanced Materials and its Applications (SAMA-2020)” organized by Department of Physics, Science & Humanities, Usha Rama College of Engineering & Technology held on 15th - 19th October, 2020.
12. Five-day Faculty Development Program on “Spectroscopical Studies in structural Analysis – Modern era Applications” organized by Department of Science & Humanities, Hyderabad Institute of Technology and Management held on 25th - 29th January, 2021.
13. National Level 5 Day Faculty Development Programme on “Material Characterization Techniques” organized by Dept. of Physics & Electronics association with Indian Association of Physics Teachers (IAPT) from 2nd – 6th March, 2021.

National : 18

1. Webinar on “ The Need for change in pedagogy and simple way to teach online with a smart phone for beginners” organised by Usha Rama College of Engineering and Technology, Andhra Pradesh, India on 11th May, 2020
2. “Faculty Awareness Programme on NBA to keep in touch with NBA Accreditation” organised by Internal Quality Assurance Cell (IQAC), PACE Institute of Technology and Sciences, Ongole on 25th May, 2020.
3. National Webinar on “Creative Writing of Research Proposals & Articles” organized by Dept. of Physics, Adikavi Nannaya University, Rajamahendravaram 4th June, 2020.
4. Webinar on “Emerging Trends in Nano-Materials for Microwave, Integrated Electronics and Cancer applications” organized by Dept. of Basic Sciences & Humanities, GMR Institute of Technology, Rajam, A.P. 04th June, 2020.
5. National Webinar on “Role of Spectroscopy in Material Science for Engineering applications” conducted jointly by Dept. of Physics & Chemistry under IQAC, Palamaner, A.P. on 17th June, 2020.
6. National Webinar on “Microscopy of functional Materials and Spectroscopy” organized by Department of AS&H (Physics), Tirumala Engineering College, 22nd June, 2020.
7. National Online Webinar on “SPACE EXPLORATION AND PHYSICS” Jointly organized by the PG and Research Department of Physics and United Technology Puthanampatti, Tamil Nadu, held on 24th June, 2020.
8. Webinar on “NMR Spectroscopy ” organised by Department of Basic Sciences & Humanties, Vignan's Institute of Management & Technology for Women, Hyderabad, on 24th June, 2020.

9. Webinar on RESEARCH APPROACH FOR GLOBAL REACH organized by P.G & Research Department of Physics, S.T. Hindu College, Nagercoil on 26th June, 2020.
10. National Webinar on “NAAC ASSESSMENT AND ACCREDITATION PROCESS” organized by Krishna University, Machilipatnam in association with NAAC, Bangalore on 04th August, 2020.
11. National Webinar on “Quantum Dot and its Applications” organized by Dept. of Science & Humanities, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai, Tamilnadu on 6th August, 2020.
12. One week Webinar on TIME TO REALISE THE ENERGIES/STRENGTHS WITHIN AND SURROUNDING ‘YOU’ WITH REFERENCE TO COVID-19, Conducted by the Andhra Pradesh State Council of Higher Education in association with Population Research Centre, Department of Statistics Andhra University, Visakhapatnam during 10th - 15th August, 2020.
13. Webinar on “Dielectric materials and their characterization studies in the microwave frequency region” organised by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad, 14th August, 2020.
14. Three-day National level webinar on "Recent Trends in Materials Science (RTMS-2020)" organized by Department of Physics, Science & Humanities held on 19th - 21st August, 2020.
15. Webinar on “Visualizing Quantum Mechanics” successfully from Edu-i-Academy On 30th August, 2020.
16. “National Webinar on “Characterization Techniques of Materials” organized by Department of Physics, JKC College, Guntur, held on 30th September, 2020.
17. National Webinar on “Dr. Dilip Bhawalkar: His Role and Guidance for Developments of Optics and Laser Technology in India” conducted jointly by Dept. of Physics & Chemistry under IQAC , Palamaner, A.P. on 16th October, 2020.
18. National Webinar on “Characterisation of Materials” Organised by the Department of Physics, K.L.E.F., Vijayawada, 30th November, 2020.

Workshops: 08

1. Two-day online workshop on “Modern methods for Teaching – Learning Practices” organized by Krishna University association with Andhra Pradesh State Council of Higher Education on 12th & 13th May, 2020

2. One Day Swachhta Action Plan Online Workshop for Faculty of Higher Education Institutions in Krishna District, Andhra Pradesh, organized by Mahatma Gandhi National Council of Rural Education in collaboration with National Service Scheme, Andhra Pradesh on 6th June, 2020
3. Science Academies “Science Leadership Workshop” organized by Central University of Punjab, Bathinda, India from 22nd – 28th June, 2020.
4. National Level Workshop on “Mathematical Physics for Competitive Exams” organized by Edu-i Academy & Quark Academy on 25th & 26th July, 2020.
5. Two-day National Level Online Workshop on “Google Tools To Online Teaching” organized by Krishna University Dr. MRAR PG Centre, Nuzvid, A.P., during 26th & 27th August, 2020.
6. National Level Two-day Online Workshop on “Applications of Mathematical Sciences” organized by the Dept. of Applied Mathematics, Mathematics & Statistics, Krishna University Dr. MRAR PG Centre, Nuzvid, A.P., on 11th & 12th September, 2020.
7. National Level One Day Online Workshop on “Evolution and Treatment Options of COVID-19” organized by the Dept. of Biochemistry, Krishna University Dr. MRAR PG Centre, Nuzvid, Krishna District, A.P., on 22nd September, 2020.
8. Three day virtual national workshop on “Advanced Materials for Energy and Environment Applications” Organized by Department of Materials Science and Nanotechnology, Yogi Vemena University, Kadapa, during 21st - 23rd December, 2020.

I hereby declare that the information furnished above is true to the best of my knowledge.

Place:

Date:

(P. Raghava Rao)