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## CURRICULUM VITAE

### **Dr. P. RAGHAVA RAO**

Department of Physics  
Krishna University Dr. MRAR College of PG Studies,  
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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

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

**Ph.D. Thesis Title:** “*Spectroscopic and electrical properties of  $\text{Na}_2\text{SO}_4\text{--BaO--P}_2\text{O}_5\text{: Fe}_2\text{O}_3$  glass system & Role of modifier oxide in emission spectra and kinetics of  $\text{Sm}^{3+}$  and  $\text{Er}^{3+}\text{--Ho}^{3+}$  co-doped  $\text{Na}_2\text{SO}_4\text{--BaO--P}_2\text{O}_5$  glasses*”

**Research experience:** 13 years

**Teaching experience:** 14 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 : **25**

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

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

❖ 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 2008 to 2012.

➤ Worked as **Guest Faculty** in Physics Department, **Krishna University Dr. MRAR P.G. Centre**, Nuzvid, for the period of 2012 to 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.

➤ Working as Assistant Professor (Ad-hoc) in the Department of Physics, **KRU Dr. MRAR College of Post Graduation Studies Nuzvid** from 27-06-2020 to till date.

➤ Has been working as Program Officer – NSS (Unit-I), **Krishna University Dr. MRAR P.G. Centre**, Nuzvid.

**Guest lectures:**

- Delivered a Guest lecture on Quantum Mechanics at A.N.R. College, Gudivada on 9-10-2015.
- 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  $\text{Sm}^{3+}$  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.
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.

3. Electrical and Spectroscopic properties of  $\text{Fe}_2\text{O}_3$  doped  $\text{Na}_2\text{SO}_4\text{--BaO--P}_2\text{O}_5$  glass system  
**P. Raghava Rao**, L. Pavic, A. Moguš-Milanković, V. Ravi Kumar, I.V. Kityk and N. Veeraiah  
*Journal of Non-Crystalline Solids*, 358 (2012) 3255-3267.
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.
5. Influence of tungsten on the emission features of  $\text{Nd}^{3+}$ ,  $\text{Sm}^{3+}$  and  $\text{Eu}^{3+}$  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.
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.
7. Investigation on spectral features of tungsten ions in  $\text{PbO--Bi}_2\text{O}_3\text{--As}_2\text{O}_3$  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.
8. Piezoelectric and elastic properties of  $\text{ZnF}_2\text{--PbO--TeO}_2\text{:TiO}_2$  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.
9. The structural influence of aluminium ions on emission characteristics of  $\text{Sm}^{3+}$  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.
10. Luminescence properties of  $\text{Tb}^{3+}$  doped  $\text{Sr}_2\text{SnO}_4$  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.
11. Thermo luminescence study of  $\text{MnO}$  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

12. On some physical properties of  $\text{TiO}_2$  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.
13. Emission characteristics of  $\text{Dy}^{3+}$  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.
14. Effect of alkali-earth modifier ion on electrical, dielectric and spectroscopic properties of  $\text{Fe}_2\text{O}_3$  doped  $\text{Na}_2\text{SO}_4\text{--MO--P}_2\text{O}_5$  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.
15. Effect of Doping  $\text{Ti}^{3+}$  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.
16. Influence of  $\text{Mo}^{5+}$  ions on Spectroscopic Properties of  $\text{PbO--ZnF}_2\text{--P}_2\text{O}_5$  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.
17. Structural studies of mixed glass former  $\text{ZnO--B}_2\text{O}_3\text{--P}_2\text{O}_5\text{:TiO}_2$  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.
18. Spectroscopic and physical properties of erbium doped  $\text{Li}_2\text{O--BaO--P}_2\text{O}_5$  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
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).
20. The dielectric properties of  $\text{PbO--B}_2\text{O}_3\text{--Bi}_2\text{O}_3$  glasses doped with  $\text{V}_2\text{O}_5$   
**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

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
22. Optical properties of  $\text{Tm}^{3+}$  ions in  $\text{MO}$  ( $\text{M} = \text{Li, Na \& K}$ ) –  $\text{A}_2\text{O}_3 - \text{P}_2\text{O}_5$  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*
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.*
25. Influence of  $\text{Ti}^{3+}$  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 Babu3, N. Ch.Ramesh Babu  
*American Institute of Physics Conference Proceedings 2369 (2021) 020049.*

<b>Patents: Filed</b>
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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  $\text{YFeO}_3$  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.**

## 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. 2<sup>nd</sup> 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 (104<sup>th</sup> 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, 1<sup>st</sup> & 2<sup>nd</sup> December -2017.
27. National Conference on “Luminescence and it’s applications” (NCLA-2018), organized by CSIR-National Institute for Interdisciplinary Science & Technology, Trivandrum, 14<sup>th</sup> – 16<sup>th</sup> February,2018.
28. National Seminar on “Recent advances in materials physics” (RAMP-2018), organized by Dept. of Physics, Sri Krishna Devaraya University, Anantpur, 24<sup>th</sup> & 25<sup>th</sup> 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:**

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

#### **Course:**

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.

**FDP:**

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 18<sup>th</sup> – 20<sup>th</sup> 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 08<sup>th</sup> – 12<sup>th</sup> 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 15<sup>th</sup> – 20<sup>th</sup> 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 04<sup>th</sup> - 08<sup>th</sup> 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 27<sup>th</sup> July to 01<sup>st</sup> 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 24<sup>th</sup> - 28<sup>th</sup> 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 07<sup>th</sup> - 09<sup>th</sup> 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 05<sup>th</sup> - 09<sup>th</sup> 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 15<sup>th</sup> - 19<sup>th</sup> 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 25<sup>th</sup> - 29<sup>th</sup> 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 2<sup>nd</sup> – 6<sup>th</sup> March, 2021.

**International :**

1. "HOW TO WRITE A RESEARCH PAPER" organized by Department of Mathematics & Physics, KLE Society's & Commerce College, on 14<sup>th</sup> May, 2020.
2. International Webinar of “Interdisciplinary International Symposium” organized by Andhra Loyola Institute of Engineering & Technology, Vijayawada, on 09<sup>th</sup> June, 2020.
3. International Webinar on “Application of Cryptography in Communication Engineering” organised by Gandhi Institute for Education & Technology, Bhubaneswar on 16<sup>th</sup> June, 2020.
4. International Webinar on “Nanomaterials & Robotics” organized by IQAC, Department of Physics & Electronics on 16<sup>th</sup> June, 2020.
5. Silver Jubilee International Webinar Organised by the Department of Physics, Sri Akilandeswari Women's College, Wandiwash on 20<sup>th</sup> June, 2020.
6. International Webinar Series on “Nano Magnetism” organized by Dept. of Science & Humanities, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai, during 22<sup>nd</sup> & 23<sup>rd</sup> June, 2020.
7. International Webinar on “Particle Physics” Organised by: Department of Physics,

Sree Vidyadhi Raja NSS College, Vazhoor on 15<sup>th</sup> July, 2020.

8. International Web Conference on “Recent Advances in Science (IWCAS - 2020)” organized by Department of Physics, Don Bosco College, Tura, held on 30<sup>th</sup> & 31<sup>st</sup> of July, 2020.
9. Three Day International Webinar Series on “ Synthesis and Characterization of Nano-materials and their Novel Applications” organized by Department of Physics, R.K.Valley, Rajiv Gandhi University Of Knowledge Technologies, A.P (RGUKT-AP) from 17<sup>th</sup> - 19<sup>th</sup> August, 2020.
10. “International Webinar on “Recent Advances in Materials Science & Engineering (RAMSE-2020)” organized by Dept. of Physics and Chemistry, SVCR Govt. Degree College, Palamaner on 23<sup>rd</sup> & 24<sup>th</sup> September, 2020.
11. Three Day International Webinar on ‘IMPACT OF PHYSICS IN HEALTHCARE’, organized by the Department of Physics, Maris Stella College, Vijayawada in collaboration with ‘Emtron Technologies’, Mumbai from 14<sup>th</sup> - 16<sup>th</sup> October, 2020.
12. “International Webinar on “Advances in Material Physics” organized by RAYAN PUBLISHERS on 23<sup>rd</sup> January, 2021.

**National :**

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 11<sup>th</sup> 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 25<sup>th</sup> May, 2020.
3. National Webinar on “Creative Writing of Research Proposals & Articles” organized by Dept. of Physics, Adikavi Nannaya University, Rajamahendravaram 4<sup>th</sup> 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. 04<sup>th</sup> 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 17<sup>th</sup> June, 2020.
6. National Webinar on “Microscopy of functional Materials and Spectroscopy” organized by Department of AS&H (Physics), Tirumala Engineering College, 22<sup>nd</sup> 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 24<sup>th</sup> June, 2020.
8. Webinar on “NMR Spectroscopy ” organised by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad, on 24<sup>th</sup> June, 2020.
9. Webinar on RESEARCH APPROACH FOR GLOBAL REACH organized by P.G & Research Department of Physics, S.T. Hindu College, Nagercoil on 26<sup>th</sup> June, 2020.
10. National Webinar on “NAAC ASSESSMENT AND ACCREDITATION PROCESS” organized by Krishna University, Machilipatnam in association with NAAC, Bangalore on 04<sup>th</sup> 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 6<sup>th</sup> 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 10<sup>th</sup> - 15<sup>th</sup> 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, 14<sup>th</sup> 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 19<sup>th</sup> - 21<sup>st</sup> August, 2020.
15. Webinar on “Visualizing Quantum Mechanics” successfully from Edu-i-Academy On 30<sup>th</sup> August, 2020.
16. “National Webinar on “Characterization Techniques of Materials” organized by Department of Physics, JKC College, Guntur, held on 30<sup>th</sup> 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 16<sup>th</sup> October, 2020.
18. National Webinar on “Characterisation of Materials” Organised by the Department of Physics, K.L.E.F., Vijayawada, 30<sup>th</sup> November, 2020.

## **Workshops:**

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 12<sup>th</sup> & 13<sup>th</sup> 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 6<sup>th</sup> June, 2020
3. Science Academies “Science Leadership Workshop” organized by Central University of Punjab, Bathinda, India from 22<sup>nd</sup> – 28<sup>th</sup> June, 2020.
4. National Level Workshop on “Mathematical Physics for Competitive Exams” organized by Edu-i Academy & Quark Academy on 25<sup>th</sup> & 26<sup>th</sup> 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 26<sup>th</sup> & 27<sup>th</sup> 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 11<sup>th</sup> & 12<sup>th</sup> 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 22<sup>nd</sup> 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 Vemana University, Kadapa, during 21<sup>st</sup> - 23<sup>rd</sup> December, 2020.

## **DECLARATION**

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

Place:

(P. Raghava Rao)

Date: