

## Academic Profile



**Dr.SOMAROUTHU V G V A PRASAD**

M.Sc., M.Phil., Ph.D., D.Lit.

Lecturer in Physics & Electronics

### Institutional Address:

Pithapur Rajah's Government College (Autonomous), Kakinada – 533001, Andhra Pradesh, India

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D.No: 68-10-34/8, Nancy Street, Vidyuth Nagar, Kakinada – 533003, Andhra Pradesh, India

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### ➤ **Personal Profile**

Proactive professor and researcher with over 29 years of teaching experience and 17 years of research experience in Physics, specializing in Glass Science, Thermal, Dielectric, and Spectroscopic properties. Supervised multiple Ph.D. and M.Phil. students, published extensively in peer-reviewed journals, and contributed to academic leadership as Research Supervisor at several universities. Recognized with national awards for academic excellence and lifetime achievement.

## ➤ Education

Degree	Institution	Year	Thesis/Advisor/Programme
Ph.D. Physics	Acharya Nagarjuna University	2007	Dielectric and spectroscopic properties of Ba <sub>2</sub> O <sub>3</sub> -M <sub>2</sub> O <sub>3</sub> (M=Ga, Al, In)-P <sub>2</sub> O <sub>5</sub> glass system doped with some transitional and rare earth ions. Advisor: Prof. N. Veeraiah
M.Phil. Physics	Acharya Nagarjuna University	2002	Studies on Some Physical Properties of PbO-As <sub>2</sub> O <sub>3</sub> Glasses Doped with Ni <sup>+2</sup> ions Advisor: Prof. N. Veeraiah
M.Sc. Physics	Andhra University	1994	Physics
B.Sc.	V.S.M College, Ramachandrapuram	1992	Mathematics, Physics and Electronics
Certificate	NSTC (Nanotechnology)	--	Introductory Programme in Nanotechnology

## ➤ Professional Appointments

Position	Institution	Period	Key Responsibilities/Achievements
Research Coordinator for R&D	PRGC (A), Kakinada	2022-Present	Administrative
Deputy Controller of Examinations	PRGC (A), Kakinada	2023- Present	Administrative
Professor	PRGC (A), Kakinada	2021 – Present	Teaching, research, academic leadership
Professor	Ideal College of Arts & Sciences (A), Kakinada	2019 – 2021	Teaching, research, academic leadership

Position	Institution	Period	Key Responsibilities/Achievements
S.G. Lecturer	Ideal College of Arts & Sciences (A), Kakinada	2013 – 2019	Teaching, research, academic leadership
Lecturer	A.J. Kalasala, Machilipatnam	1996 – 2013	Teaching, research, academic leadership
COE (Admin)	Ideal College of Arts & Sciences (A), Kakinada	2018 – 2021	Controller of Examinations

### ➤ Research Leadership

- Research Supervisor, Acharya Nagarjuna University, Guntur
- Research Supervisor, Prist University, Tamil Nadu
- Research Supervisor, Adikavi Nannayya University, Rajamahendravaram
- Coordinar, R&D, PRGC (A), Kakinada.

### ➤ Membership in Professional Bodies

- Member, International Society for Environmental Information Sciences, Canada
- Life Member, Society for Material Chemistry (BAARC)
- Life Member, Association of Physics Teachers
- Life Member, Indian Science Congress
- Life Member, Luminescence Society of India
- Editorial Board Member, BEI-ESP Journals
- Reviewer for Elsevier, Asian Journal of Applied Chemistry Research, IJERT
- BOS Member, UG & PG Physics, V.S.M.College, Ramachandrapuram.
- BOS Member, UG Physics, A.S.D..College (W), Kakinada
- BOS Member, UG Electronics, Ch S D St Theresa's Atonomous College for Women, Eluru.

### ➤ Research Supervision

- Ph.D. Students Guided: 1 (ongoing: 3)
- M.Phil. Students Guided: 4

### ➤ Number of Books Edited (18):

1. Proceedings of UGC sponsored National seminar on multi-functional materials synthesis and applications
2. Proceedings of International Forum on Recent Trends In Physics, Chemistry & Allied Sciences for Sustainable Development 2019.

Sl. No.	Title of the Book	Name of the Publication	ISBN NO.	Year of Publication
1	Emerging and Contemporary Issues and Challenges of Education and Society	ANU Books	978-93-90879-41-0	2021
2	Engineering Physics	Scientific International Publishing House	978-93-5625-025-3	2022
3	Foundation for Nano Science, Nano BioTechnology and its medical Applications	Scientific International Publishing House	978-93-94002-58-6	2022
4	Bio Sensors and Bio Electronics	R K Publications	978-81-19489-95-4	2023
5	Mathematical Foundations of Computer Science	R K Publications	978-81-191-40-78-7	2023
6	Engineering Physics Concepts	Infinite Research	978-81-967685-9-1	2023
7	Mathematical Foundations of Computer Science	R K Publications	978-81-191-40-78-7	2023
8	Pathways to discovery and Innovation: Nurturing Researchers	International Institute of Organized Research (I2OR)	978-81-967563-1-4	2024

9	Smart Materials and Advanced Applications-2024	K Y Publications	978-93-92760-55-6	2024
10	Revolutionary Discoveries	Bluerose Publishers Pvt. Ltd	978-9359894102	2024
11	Research Methodology and IPR	R.K Publications	978-81-970539-9-3	2024
12	International Tourism : Culture and Behaviour	Zenodo	978-81-976657-6-9	2024
13	Spreading The Wings Of 21 Century Women	K Y Publications	978-93-92760-21-1	2025
14	Convergence of Chemistry and Physics in Advanced Nanomaterials and Nanotechnology	K Y Publications	978-93-92760-68-6	2025
15	Solar Thermal Technologies and Nano-Enhanced Phase Change Materials for High-Efficiency Electric and Solar Mobility	RADemics Research Institute	978-81-986078-7-4	2025
16	Research Methodology In The Real World Theory, Practice and Application	Shivika PUBLICATION	9789349552654	2025

### ➤ Book Chapters Published (16)

Sl. No.	Title of Book/Chapter	Publication & ISBN	Year of Publication
1	A Comprehensive Review on Nanoparticles in Construction Materials.	Research Methodology in Materials Science ISBN: 978-93-90028-56-6	Feb 2025
2	Convergence of AI, Sustainability and Single-Cell Analysis: Revolutionizing Research Methodologies in	Research Methodology in Materials Science ISBN: 978-93-90028-56-6	Feb 2025

Sl. No.	Title of Book/Chapter	Publication & ISBN	Year of Publication
	Materials Science for 2025 and Beyond.		
3	Polymer-Based Nanocomposites for Energy Storage and Conversion Devices: A Comprehensive Review.	Research Methodology in Materials Science ISBN: 978-93-90028-56-6	Feb 2025
4	Essential Building Blocks of MAPs	Research Methodology in Materials Science ISBN: 978-93-90028-56-6	Feb 2025
5	Education that Provides Value—Adds: Improved Educational Outcomes and Future Preparedness	Empowering Youth: Role of Human Values and Professional Ethics for A Better Tomorrow (EROPEB – 2024) ISBN: 978–819836314–5	Feb 2025
6	Policy Frameworks and Economic Viability of Sustainable Agriculture: The Indian Context	Advances in Sustainable Agriculture and Food Systems ISBN: 978-93-342-0566-4	Mar 2025
7	Biomedical Applications of Physico-Chemical Nanomaterials: Recent Advances and Future Perspectives	Convergence of Chemistry and Physics in Advanced Nanomaterials and Nanotechnology/KY Publications ISBN: 978-93-92760-68-6	Mar 2025
8	Biocompatible and Functionalized Nanomaterials: A New Era in Regenerative Medicine	Convergence of Chemistry and Physics in Advanced Nanomaterials and Nanotechnology/KY Publications ISBN: 978-93-92760-68-6	Mar 2025
9	Nanomaterials as Environmental Guardians: Integrating Remediation and Sensing for Pollution Management	Convergence of Chemistry and Physics in Advanced Nanomaterials and Nanotechnology/KY Publications ISBN: 978-93-92760-68-6	Mar 2025
10	Nurturing Success: Understanding the Stages of Child Development	Holistic Child Development/Registrar, Children's Research University, Subhash Chandra Bose Shixan Sankul, Chh-	Apr 2025

Sl. No.	Title of Book/Chapter	Publication & ISBN	Year of Publication
		5,Children's University, Sector 20, Gandhinagar, Gujarat. ISBN: 978-93-93222-82-4	
11	Architects of Tomorrow: Reimagining Teacher-Student Dynamics in the NEP 2020 Era	The New Education Policy: Shaping India's Future in the New Era of Education/KY PUBLICATIONS. ISBN: 978-93-92760-75-4	2025
12	Tech-Driven Solutions for Environmental Conservation by AI Collaboration Processes	IGI Global, ISBN 9798369336250, EISBN 9798369336267	2024
13	Biometric Authentication and Theft Alert System for Motorcycles using IOT	IGI Global, ISBN 979-8-3693-3755-4, EISBN 979-8-3693-3756-1	2024
14	MARS: Manual and Automatic Robotic Sanitization on Social Milieu	SpringerLink, Print ISBN 978-981-97-2610-3, Online ISBN 978-981-97-2611-0	2024
15	Women Status in India	Sanskriti Publication, ISBN 978-81-971567-4-8	2024
16	Research Methodology in Environmental Sciences	YVNR Govt. Degree College, Kaikaluru in association with ROSHAN Publications, Visakhapatnam, ISBN 978-93-90028-80-1	2024

➤ **Area of Research:**

1. Glass Science, Thermal, Dielectric Properties and Spectroscopic properties, Batteries, Nanomaterials, Ultrasonics and Renewable Energy
2. Number of Research students guided so far: Ph.D. – **01**,  
M.Phil. – **04**

Sl.No	Name of the Scholar	Degree awarded	University	Year
1	Koppakala Bharathi Manoja	M.Phil	Priest	2010
2	Md.Yousuf Sayyad	M.Phil	Acharya Nagarjuna University	2012
3	B.Subrahmanye swara Rao	M.Phil	Acharya Nagarjuna University	2013
4	B.Lakshmana Rao	Ph.D	Acharya Nagarjuna University	2015
5	T.N.Bhavani	M.Phil	Acharya Nagarjuna University	2016

3. Number of Research Scholars doing research at present:Ph.D. –**03**,  
M.Phil. – **00**

S.No	Name of the Scholar	Degree	University
1	T.N.Bhavani	Ph.D. (PART-TIME)	Acharya Nagarjuna University

➤ **Academic Distinctions (Awards / Honors, etc.):**

1. D.Litt-2019.
2. Dr.A P J Abdul Kalam Lifetime Achievement National Award-2021.
3. Bharat Ratna Dr. Radhakrishnan Gold Medal Award-2022.
4. I2OR National Teaching Excellence Award 2024 (Nov-2024),
5. Fellow Member of Global Institute for Education and Research (GIER)(Nov-2024).
6. Lifetime Achievement Award (Scientific Laurels) (Dec-2024).
7. International Academic Excellence Award 2024(Dec-2024).
8. I2OR International Teaching Excellence Award 2025.
9. Research Excellence Award 2025.
10. IRSD Excellence in Research and Development Award 2025.

➤ **Number of Seminars/Symposium/Conferences/Workshops conducted – 5**

1. One day state level seminar on —Recent trends in materials science|| 22<sup>nd</sup> February 2014.
2. One day state level Workshop on —RENEWBLE ENERGY|| 20<sup>TH</sup> AUGUST2018.
3. Two days National Seminar on Study on Interaction between Human Society and Natural Environment & Natural Resource Management on 24<sup>th</sup> & 25<sup>th</sup> January 2019.
4. Convener, 5-Day National Webinar Researchers Development Programme (RDP) "Pathways to Discovery: Nurturing Researchers for Tomorrow" (RDP-2024), 25–30 April 2024.
5. Coordinator, Intellectual Property Awareness Program under NIPAM, 12 November 2024.



## Research and Review Publications (128):

1. S. V. G. V. A. Prasad, G. Sahaya Baskaran, and N. Veeraiah —Spectroscopic, magnetic and dielectric investigations of BaO–Ga<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glasses doped by Cu ions|| [Physica status solidi a](#), 202, No. 14, 2812–2828 (2005).
2. S.V.G.V.A. Prasad, M. Srinivasa Reddy, N. Veeraiah —Nickel ion—A structural probe in BaO–Al<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glass system by means of dielectric, spectroscopic and magnetic studies|| [Journal of Physics and Chemistry of Solids](#), 67 (12), 2478-2488 (2006).
3. M. Srinivasa Reddy, S. V. G. V. A. Prasad, and N. Veeraiah —Valence and coordination of chromium ions in ZnO–Sb<sub>2</sub>O<sub>3</sub>–B<sub>2</sub>O<sub>3</sub> glass system by means of spectroscopic and dielectric relaxation studies|| [Physica status solidi a](#), 204, No.3, 316-312(2007).
4. S.V.G.V.A. Prasad, M. Srinivasa Reddy, V. Ravi Kumar, N. Veeraiah —Specific features of photo and thermoluminescence of Tb<sup>3+</sup> ions in BaO–M<sub>2</sub>O<sub>3</sub> (M = ¼ Ga, Al, In)–P<sub>2</sub>O<sub>5</sub> glasses|| [Journal of Luminescence](#), 127 (2007) 637–644 (2007).
5. S.V.G.V.A. Prasad, T. Satyanarayana, A. Padmanaabham —Photoluminescence Studies of Eu<sup>3+</sup> ions In BaO–M<sub>2</sub>O<sub>3</sub> (M=In, Al, Ga)–P<sub>2</sub>O<sub>5</sub> Glasses|| Conf. Series: [International Conference on Luminescence and Its applications \(ICLA-2008\)](#) 189.
6. S.V.G.V.A. Prasad, B. Lakshmana Rao —Optical absorption and fluorescence spectral studies of Sm<sup>3+</sup> ion in BaO–M<sub>2</sub>O<sub>3</sub> (M = Ga, Al, In)–P<sub>2</sub>O<sub>5</sub> glass systems|| [IOP Conf. Series: Materials Science and Engineering](#), 2 (2009) 012043 .2
7. S.V.G.V.A. Prasad, Y. Gandhi and N. Veeraiah — —Optical absorption and fluorescence spectral studies of Tb<sup>3+</sup> ion in BaO–M<sub>2</sub>O<sub>3</sub> (M=Ga, Al and In)–P<sub>2</sub>O<sub>5</sub> glass systems|| [Proceedings of the National seminar on Luminescence and Its Applications \(NCLA-2009\)](#).
8. G. Murali Krishna, S.V.G.V.A. Prasad — Spectroscopic properties of Li<sub>2</sub>O–CaF<sub>2</sub>–P<sub>2</sub>O<sub>5</sub> glass system crystallized with different nucleating agent|| [Proceedings of the International Conference on Multifunctional Materials \(ICMM-2010\)](#).
9. Ch. Srinivasa Rao, T. Sri Kumar, M. Sundara Rao, S.V.G.V.A. Prasad —Influence of titanium ions on structural and dielectric properties and spectroscopic studies of PbO–Bi<sub>2</sub>O<sub>3</sub>–As<sub>2</sub>O<sub>3</sub> glasses doped with titanium ions|| [Proceedings of the International Conference on Speciality Glass & Optical Fiber Materials, Technology & Devices \(ICGF-2011\)](#).I
10. Y.N.Ch. Ravi Babu, S.V.G.V.A. Prasad, A. Suresh Kumar —Spectral Studies of Samarium Doped Heavy Metal Borophosphate Glass Systems|| [Proceedings of the International Conference on Speciality Glass & Optical Fiber Materials, Technology & Devices \(ICGF-2011\)](#).I
11. Y.N.Ch. Ravi Babu, P. Sree Ram Naik, K. Vijaya Kumar, S.V.G.V.A. Prasad, A. Suresh Kumar "Spectral studies of Erbium doped heavy metal borophosphate glass systems " [Physica B: Condensed Matter](#), Volume 407, Issue 4, Pages 705-711, (2012).
12. P. Naresh, G. Naga Raju, Ch. Srinivasa Rao, S.V.G.V.A. Prasad V. Ravi Kumar, N. Veeraiah "Influence of ligand coordination of cobalt ions on structural properties of ZnO–ZnF<sub>2</sub>–B<sub>2</sub>O<sub>3</sub> glass system by means of spectroscopic studies " [Physica B: Condensed Matter](#), Volume 407, Issue 4, Pages 712-718 (2012).
13. B. Lakshmana Rao, Y.N.Ch. Ravi Babu, S.V.G.V.A. Prasad —Spectroscopic and EPR studies on PbO–Y<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glasses doped with molybdenum ion|| [Physica B: Condensed Matter](#), 429, 68-72(2013).
14. B. Lakshmana Rao, Y.N.Ch. Ravi Babu, S.V.G.V.A. Prasad —Magnetic and spectroscopic properties of PbO–La<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub>:Cr<sub>2</sub>O<sub>3</sub> glass system|| [Journal of Non-Crystalline Solids](#), 382, 99–104(2013).
15. B. Lakshmana Rao, S.V.G.V.A. Prasad — Physical properties and optical absorption of PbO–Y<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub>:MoO<sub>3</sub> glass system|| [Proceedings of the National seminar on Multifunctional Materials \(NSMFm-2013\)](#).

16. B. Lakshmana rao, Y. N. Ch. Ravi babu, P. Syam prasad, and S. V. G. V. A. Prasad —Spectroscopic Investigation of Tungsten Ions in Lead Scandium Phosphate Glass System|| [Spectroscopy letters](#) , 48,90-95 (2013).
17. S V G V A Prasad and Y N C R Babu —Spectroscopic properties of BaO–Ga<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glasses doped by molybdenum ions|| [Indian Journal of Physics](#) , 88(4):427–431(2014).
18. S.V.G.V.A. Prasad —The influence of valence states of tungsten ions on PbO–Y<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glass network|| [Journal of Molecular Structure](#), 1074,636-640(2014).
19. S.V.G.V.A.Prasad, N.Rajesh Kumar and Y.N.Ch.Ravi Babu —Spectral properties of Ho<sup>3+</sup> ion doped in Heavy metal oxide Glasses|| [Proceedings of the UGC sponsored National seminar on Shaping the future with Green Chemistry, \(SFGC-2014\)](#) pp 113-117.
20. Y.N.Ch.Ravibabu and S.V.G.V.A.Prasad —Effect of Al<sub>2</sub>O<sub>3</sub> on Optical Absorption Properties of Heavy Metal Oxide Glass System doped with Nd<sup>3+</sup> Ion|| [International Journal of Current Engineering and Technology](#), Vol.4, 2588-2594(2014).
21. Y.N.Ch. Ravi Babu, S.V.G.V.A. Prasad, M. Kiran Kumar, A. Suresh Kumar —Fluorescence Features of Dy<sup>3+</sup> Doped PbO-Bi<sub>2</sub>O<sub>3</sub> Borophosphate Glasses|| [Asian J. Research Chem.](#) 7(11) 913-918(2014).
22. V. Ravi Kumar, G. Naga Raju, S.V.G.V.A.Prasad, P.Raghava Rao, N. Narasimha Rao — Effect of Doping Ti<sup>3+</sup> Ions on Spectroscopic Behavior of Lead Bismuth Phosphate Glasses|| [International Journal of Science and Research](#) , ATOM-201405(2014).
23. Y.N.Ch.Ravi Babu, Malathi Rekha, N.Rajesh Kumar, S.V.G.V.A.Prasad —Spectral Investigations of Er<sup>3+</sup> Doped Lead Bismuth Borophosphate Glasses|| [ATOM-201408](#)(2014).
24. K.Jyothi Raju, B.Lakshmana Rao, G.naga Raju,S.S.R.Murthy, N.Prasad Babu, B.Sekhar, G.Vijaya Swaroop Sing and S.V.G.V.A.Prasad —Dielectric properties of BaO-In<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub>:MoO<sub>3</sub> glasses|| [International Journal of Advanced Research in Physical Science](#), Volume2 Issue 1(A),MFMSA-2015.
25. Y.N.Ch.Ravi Babu, S.V.G.V.A.Prasad,P.Venkata Ramana, P.Kamala, T.Malathi Rekha —Spectroscopic investigations of Nd<sup>3+</sup> doped heavy metal oxide borophosphate|| [International Journal of Advanced Research in Physical Science](#), Volume2 Issue 1(A),MFMSA-2015.
26. B.Subrahmanyeswara Rao, K.Jyoti Raju,Y.N.Ch.Ravi Babu and S.V.G.V.A.Prasad —Optical Absorption Spectra of Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> Glasses Doped With Copper Ions|| [International Journal of Chemical and Physical Sciences](#), Vol. 4, No.-5,34-38 (2015).
27. B.Lakshmana Rao,K.Jyothi Raju and S.V.G.V.A.Prasad — Composition of Color Comments and applications of Glass Materials|| [Proceedings of the UGC sponsored National seminar on Development of Advanced Materials in Physics and Electronics and Their Applications, \(NSDAMPE-2014\)](#) 14009.
28. K.Jyothi Raju, B.Lakshmana Rao and S.V.G.V.A.Prasad —Dielectric properties of BaO-In<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub>:MoO<sub>3</sub> glasses|| [Journal of Advanced Research in Applied Science](#),Volume 2 Issue 2,52-53(2015).
29. Y.N.Ch.Ravi Babu and S.V.G.V.A.Prasad —Spectroscopic investigations of Nd<sup>3+</sup> doped heavy metal oxide borophosphate|| [International Journal Of Luminescence And Applications](#), Volume 5 Issue 2,271-276(2015).
30. Md.Sayyed Yousuf,K.Jyothi Raju,B.Lakshmana Rao,S.V.G.V.A.Prasad —The Optical absorption study of Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub>:MnO glass system|| [International Journal of Engineering and Advanced Research Technology](#), Volume 1,Issue 6,39-41(2015).
31. B.Subrahmanyeswara Rao, K.Jyothi Raju,G.Naga Raju, A.Ravikumar, S.V.G.V.A.Prasad —The Optical absorption study of Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub>:MnO glass system|| [International Journal of Engineering and Advanced Research Technology](#), 2015.
32. K.Jyothi Raju Dr.B.Lakshmana Rao and Dr.S.V.G.V.A.Prasad —E S R Spectra of PbO-

- Ga<sub>2</sub>O<sub>3</sub>- P<sub>2</sub>O<sub>5</sub>:MoO<sub>3</sub> Glasses|| [International journal of research, June 2016.](#)
33. K.Jyothi Raju,dr.B.Lakshmana Rao and Dr.S.V.G.V.A.Prasad|| I R Spectra of Lead Gallium Phosphate Glasses doped with molybdenum ions|| [World journal of research and review, Volume-2, Issue-6, June 2016 Pages 10-12.](#)
  34. K.Rajani,Dr.B.Lakshmana Rao and Dr.S.V.G.V.A.Prasad —DTA traces of Lead Gallium Phosphate Glasses doped with tungsten ions|| [International journal of innovative research in science, engineering and technology, Volume-5, Issue-7, July 2016 Pages 12476-12478.](#)
  35. K.Rajani,Dr.B.Lakshmana Rao and Dr.S.V.G.V.A.Prasad —optical absorption spectra of pbo-ga<sub>2</sub>o<sub>3</sub>-p<sub>2</sub>o<sub>5</sub> : wo<sub>3</sub> glasses|| [International Journal Of Engineering Sciences & Research Technology, 5\(9\): September, 2016, DOI: 10.5281/zenodo.61444.](#)
  36. Nanomaterials Applications published in [Proceedings of NATSEM-2016.](#)
  37. Nanotechnology foe pollution control and applications of nanoparticles published in [Proceedings of NATSEM-2016.](#)
  38. Environmental pollution control in Nanotechnology published in Proceedings of [NATSEM-2016.](#)
  39. Nanomaterials and its applications published in [Proceedings of ASTM-2016.](#)
  40. The structural investigation of PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses with MoO<sub>3</sub> as additive by means of spectroscopic studies published in [Proceedings of NATSEM-2016.](#)
  41. Paper published in the proceedings of the seminar at analysis of quality of recycling in waste management) CR Reddy college Eluru.
  42. Published paper titled environmental remediation in the proceedings of the seminar on Recent trends in Nano science and nano technology at M R College,Vijayanagaram on 26<sup>th</sup> and 27<sup>th</sup> Nov'2016.
  43. Published paper titled in the proceedings of the seminar on An introduction to Piezo electric materials and its applications to Two-day national seminar on —Smart Materials|| at JMJ college Tenali, on 30<sup>th</sup> Nov and 1<sup>st</sup> Dec.
  44. Paper published titled optical absorption spectra of PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses doped with MoO<sub>3</sub> in proceedings two-day international seminar SCMA-17 at SPMH College from 04-01-17 to 05-01-17.
  45. Paper published titled Nano technology for pollution: application of Nano technology at ABCT-17 LOYYOLA College from 20-01-17 to 21-01-17.
  46. Paper published titled spectroscopic studies of PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses with MoO<sub>3</sub> in proceedings the international seminar on Emerging trends in chemical,phormaceuical , environmental science and technology at PR college,Kakinada 24-01-2016 to 25-01-2016.
  47. Paper published titled Mathematics and Society in [Proceedings of NCERTPAM-2017.](#)
  48. Paper published titled ethics in higher education as a tool for discovering our ultimate destiny in IJMART.
  49. Paper published titled —Thermo Luminescence And Structural Characteristics Of ZnO–Li<sub>2</sub>O–B<sub>2</sub>O<sub>3</sub> Glass System Doped With Copper Oxide For Radiation Dosimetry|| Published In [Proceedings of two day national seminar on —Recent Trends in Physics and Electronics|| \(NSRTPE-2017\),Rayalaseema University,Kurnool.](#)
  50. [Accepted As Reviewer in Elsevier June 2017](#)
  51. Paper published titled Dielectric dispersion in Pbo-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> glasses mixed with Cr<sub>2</sub>O<sub>3</sub>. —[International Journal of Multidisciplinary, volume3, Issue-06.16-June-2018.](#)
  52. Published Research paper Dielectric Dispersion in PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses doped with molybdenum Paper published in [Journal paper, VOL 5 ISS 13P1 26191-26468 on june 2018.](#)
  53. Published Research paper Dielectric Dispersion in Pbo-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> Glasses mixed with Cr<sub>2</sub>O<sub>3</sub>. Paper published in [Research Review International Journal of Multidisciplinary, ISSN:](#)

2455-3085 (Online), Volume-03, Issue-06, PP 372-374 on June 2018.

54. Published Research paper PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses with Cr<sub>2</sub>O<sub>3</sub> as additive by means of spectroscopic studies Paper published in [Journal paper, VOL 5 ISS 13P1 26191-26468 on August 21, 2018](#)
55. Paper published titled PbO-Sc<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses with Cr<sub>2</sub>O<sub>3</sub> as additive by means of spectroscopic studies in [KY Publications, ISBN:978-93-87769-51-9 February 2019](#)
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S.No	Patent Title	Patent Number / Type	Year / Date	Link
1	Offshore Hybrid Energy Generation Device (Design Grant)	438018-001 (National)	2025 (Reg: 21/11/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
2	Electroactive Microbial Biosensor for Rapid Detection of Endocrine Disrupting Chemicals in Wastewater	202541002813 (National)	2025 (Reg: 13/01/2025)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
3	Fruits and Vegetable Quality Checking Device	437689-001 (National)	2025 (Reg: 18/11/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
4	Equipment for Production, Distribution or Transformation of Electricity	6426482 (International - UK)	2025 (Grant: 05/03/2025)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
5	IoT Assisted Environmental Pollution Detecting Device (Design Grant)	436487-001 (National)	2024 (Reg: 05/11/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
6	Self-Reconfiguring Wind Turbine Blades for Multi-Directional Wind Capture (Design Grant)	428764-001 (National)	2024 (Reg: 30/08/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
7	Solar Energy Panel with Integrated Heat Pipes (Design Grant)	433585-001 (National)	2024 (Reg: 11/10/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
8	Topology Optimization in IoT Networks Using Graph Theory	202441085988 (National)	2024 (Reg: 08/11/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
9	Hybrid Wind and Solar Power Charging Station	6393741 (International -	2024 (Grant: 02/10/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>

S.No	Patent Title	Patent Number / Type	Year / Date	Link
		UK)		
10	Wearable Disaster Emergency Communication Device	6390387 (International - UK)	2024 (Grant: 20/09/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
11	Electric Vehicle for Handicap	424826-001 (National)	2024 (Filed: 26/07/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
12	AI Based Device for Monitoring Social Responsibility	422835-001 (National)	2024 (Filed: 11/07/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
13	Solar and Wind Energy Based Vehicle Charging Station	6381065 (International - UK)	2024 (Grant: 05/08/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
14	Automatic Robotic Waste Bin	6380403 (International - UK)	2024 (Grant: 31/07/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
15	Solar Panel Energy Generation Monitoring Device	6380205 (International - UK)	2024 (Grant: 30/07/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
16	Wireless Charging Station Integrated With Sensor	6368708 (International - UK)	2024 (7 June 2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
17	Personalized Medicine Packaging Device	6358154 (International - UK)	2024 (18 April 2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
18	AI Based Wireless Electricity Consumption Monitoring Device	413103-001 (National)	2024 (09/04/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
19	Advancements in Agriculture: A Solar-Powered, Remote-Controlled Vehicle for Pesticide and Fertilizer Distribution	202441022032 (National)	2024 (29/03/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
20	Portable Solar-Powered	6351920	2024	<a href="https://prgc.edu.in/pages.php?">https://prgc.edu.in/pages.php?</a>

S.No	Patent Title	Patent Number / Type	Year / Date	Link
	Water Purifier	(International - UK)	(19/03/2024)	<a href="#">menu=22&amp;submenu=140</a>
21	Exploring Bismuth-Based Double Perovskites for Solar Cells Using Machine Learning Perspective	202411008396 (National)	2024 (16/02/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
22	Elevating Nanostructured CdS Thin Films: Advances in Physical and Photoelectrochemical Features for Optoelectronic Innovation	202441004198 (National)	2024 (09/02/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
23	Efficient Room-Temperature Synthesis of Ethyl Acetate Using Vanadium-Enhanced Phosphomolybdic Acid Catalyst Supported on ZrO <sub>2</sub> .TiO <sub>2</sub> Mixed Oxide	202441001222 (National)	2024 (02/02/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
24	Investigating the Dielectric Properties of Cobalt-Doped Ferrite Nanoparticles (Co <sub>x</sub> Fe <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> )	202341090185 (National)	2024 (26/01/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
25	Synthesis and Property Studies of Magnetic Oxide Materials and ZnO Nanoparticles	202341082659 (National)	2024 (05/01/2024)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
26	Artificial Intelligence-Based Approach to Study the Impact of Temperature on Dielectric Properties of Bismuth Ferrite (BiFeO <sub>3</sub> ) Nanoparticles for PV Applications	202321055632 (National)	2023 (06/10/2023)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
27	Machine Learning Algorithms to Predict the Power Consumption of Individual Household	202341054211 (National)	2023 (01/09/2023)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>

S.No	Patent Title	Patent Number / Type	Year / Date	Link
28	A System for Heat Transfer Enhancement Through Liquid Jet Impingement by Modification in Target Surface	IN 202221001816 (International - German)	2022 (15/03/2022)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
29	An Electronic Vehicle Having Renewable and Eco Friendly Energy Resources Through Solar Power	202141057745 (National)	2021 (17/12/2021)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>
30	Reusability of Antimicrobial Multilayer NanoFiber Mask with High Protective	202141055679 (National)	2021 (10/12/2021)	<a href="https://prgc.edu.in/pages.php?menu=22&amp;submenu=140">https://prgc.edu.in/pages.php?menu=22&amp;submenu=140</a>

#### ➤ International Conferences/ Seminars Attended (24):

1. International Conference on Luminescence and Its applications (ICLA-2008), National Physical Laboratory, New Delhi, February 13-16,2008, Poster presentation, —Photoluminescence Studies of Eu<sup>3+</sup> ions In BaO-M<sub>2</sub>O<sub>3</sub>(M=In,Al,Ga)-P<sub>2</sub>O<sub>5</sub> Glassesl.
2. International seminar on Science and Technology of Glass Materials (ISSTGM-2009), ANU, GUNTUR, March 16-19, 2009, Poster presentation, —Optical absorption and fluorescence spectral studies of Sm<sup>3+</sup> ion in BaO-M<sub>2</sub>O<sub>3</sub> (M = Ga, Al, In)-P<sub>2</sub>O<sub>5</sub> glass systemsl.
3. International Conference on Multifunctional Materials (ICMM- 2010), BHU, VARANASI, December7-9,2010, Poster presentation —Optical absorption and fluorescence spectral studies of Eu<sup>3+</sup> ion in BaO-M<sub>2</sub>O<sub>3</sub> (M = Ga, Al, In)-P<sub>2</sub>O<sub>5</sub> glass systemsl.
4. International Conference on Speciality Glass and Optical Fiber:Materials,Technology and Devices (ICGF-2011), CSIR-Central Glass and Ceramic Research Institute, KOLKATA, Poster presentation.
5. International seminar on Glass and Functional Materials (ISGFM-2014), ANU, GUNTUR, December11-13,2014, Poster presentation —Spectroscopic investigations of Nd<sup>3+</sup> doped heavy metal oxide borophosphate glassl.
6. 3<sup>rd</sup> Annual International Conference (AIC-3) and Industry – CCRs Congress (ICC) 2015 jointly organized by Coastal Chemical Research Society and Dr.B.R.Ambethkar Univerisity, Srikakulam, December 16-17,2015, Poster presentation —The structural influence of manganese ions in Lithium Zinc Borate glasses by means of optical absorption studyl.
7. International conference on Science and Engineering of Materials for Future Needs (ICSEMF-2015), S.R & BGNR Govt. college,Khammam,December 21-22, Poster presentation, —Dielectric studies on MnO doped Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> glass systeml
8. Attended ISC104 at S V University, Tirupathi from 03-01-17 to 07-01-17.
9. Attended two-day international seminar SCMA-17 at SPMH College from 04-01-17 to 05-01-17.
10. Attended the international seminar on Emerging trends in chemical,phormaceuical , environmental science and technology at PR college,Kakinada from24-01-17 to 25-01-17.

11. Presented a paper in one day international symposium on Recent Innovations in Engineering Materials (RIEMS)-2017.
12. Presented a paper in Two days international seminar On —Renewable Energy Technologies for smart cities at Sir C.R.Reddy College, Eluru on 12<sup>th</sup> & 13<sup>th</sup> February 2018.
13. Presented a paper in Two days international seminar On —Solar technics for smart cities at Sir C.R.Reddy College, Eluru on 12<sup>th</sup> & 13<sup>th</sup> February 2018.
14. Presented a paper in Two days international seminar On —Global Warning & Global Warming at Sir C.R.Reddy College, Eluru on 12<sup>th</sup> & 13<sup>th</sup> February 2018
15. Presented a paper —**Challenges and Opportunity towards Renewable Energy in India** in International Forum on Recent Trends in Physics, Chemistry & Allied Sciences for Sustainable Development 2019 at Ch.S.D.St.Theresa's College for Women, Eluru, on 27<sup>th</sup> & 29<sup>th</sup> SEP 2019.
16. Presented a paper The Role of Renewable Energy in Rural Development in The 107 Indian Science Congress at University of Agricultural Sciences, Bangalore from 3<sup>rd</sup> to 7<sup>th</sup> JAN 2020.
17. Presented a paper — Anti-Terrorism & Riot (ATR) Robot- The Technological Intervention to Domestic Terrorism –ICACET-2021, 22<sup>nd</sup> & 23<sup>rd</sup> October-2021, Aditya College of Engineering & technology.
18. International Virtual conference on Perspectives From Basic Sciences and Humanities 26<sup>th</sup> and 27<sup>th</sup> May-2023 at Narasaraopeta Engineering College.  
<https://drive.google.com/file/d/1Sj03qvADLVzWgWqU-zb2t9ViyfeFjOqv/view?usp=sharing>
19. International conference on Materials Engineering, Materials Chemistry and Materials Physics (MECAP-2023) held on 25<sup>th</sup> and 26<sup>th</sup> September -2023 at Sri Sagi Ramakrishnam Raju Engineering College, Bhimavaram.  
[https://drive.google.com/file/d/1Xb4KdnjFlpSzHtD4fO3FUtC\\_vj\\_Idk6j/view?usp=sharing](https://drive.google.com/file/d/1Xb4KdnjFlpSzHtD4fO3FUtC_vj_Idk6j/view?usp=sharing)
20. Participated in the two-day International Webinar on “Sustainable Vision for Exploring Future Transformation Through Plant Sciences” Organised by the Department of Botany, St. Joseph's College for Women (A) Gnanapuram, Visakhapatnam, on 7<sup>th</sup> & 8<sup>th</sup> December 2023.  
<https://drive.google.com/file/d/1u90zjFdOJWk5fTTTBAMgJqAY671sKKQj/view?usp=sharing>.
21. Contributed as an author to the scholarly work presented Online at ISDIA2025, held on January 3-4, 2025.  
[https://drive.google.com/file/d/1tVM4E7jbdqJsRz\\_ULgL23TYEzMUJ8yi/view?usp=sharing](https://drive.google.com/file/d/1tVM4E7jbdqJsRz_ULgL23TYEzMUJ8yi/view?usp=sharing)
22. participated and presented a paper entitled “EMPOWERING RURAL COMMUNITIES: INTEGRATING SCIENCE, TECHNOLOGY AND COMMERCE FOR SUSTAINABLE DEVELOPMENT” in the Two-Day National Seminar on “Empowering Rural Communities: Employment Opportunities and Transformative Strategies” held on 24<sup>th</sup> & 25<sup>th</sup> March, 2025.  
[https://drive.google.com/file/d/1AtbZdv\\_THbsVdEopFYDDbzIP2X-evlvJ/view?usp=sharing](https://drive.google.com/file/d/1AtbZdv_THbsVdEopFYDDbzIP2X-evlvJ/view?usp=sharing)
23. Presenter/co-author of the paper titled Current Trends and Future Prospects of Generative AI-Driven IoT in the 8<sup>th</sup> International Conference on Innovative Computing and Communication (ICICC-2025), organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with the National Institute of Technology Patna, India and the University of Valladolid, Spain on 14<sup>th</sup>-15<sup>th</sup> February 2025.  
[https://drive.google.com/file/d/156URN2nLX\\_7-y6ft67zz0LLrkyD5GbnP/view?usp=sharing](https://drive.google.com/file/d/156URN2nLX_7-y6ft67zz0LLrkyD5GbnP/view?usp=sharing)



24. Participated and attended (virtually) during the 15th International Conference on Interdisciplinary Research for Sustainable Development (IRSD) held virtually, organized by International Institute of Organized Research - I2OR (A Registered MSME with Ministry of MSME, Government of India and Green ThinkerZ (A Registered Society with Government of Punjab, India in association with Centre for Smart Modern Construction, Western Sydney University, Australia, Jamia Hamdard New Delhi, Spoken Tutorial IIT Bombay & Global Institute of Education & Research (GIER).  
<https://drive.google.com/file/d/1JxaEn4m57TEECyI7OHsHGskI2GbWq9LR/view?usp=sharing>

➤ **National Conferences/ Seminars Attended (49):**

1. Participated in UGC sponsored National Seminar on —Restructuring of Higher Education – Recommendations of the National Knowledge Commission, The Hindu College, Machilipatnam, 8-9, March-2008.
2. Presented a paper —Optical absorption and fluorescence spectral studies of Tb<sup>3+</sup> ion in BaO-M2O3(M=Ga,Al and in)-P2O5 glass systems in National Conference on —Luminescence and Its Applications (NCLA-2009), Central Glass and Ceramic Research Institute, Kolkata, 19-21, February-2009.
3. Participated in UGC sponsored National Seminar on —The Promise of Nanoscience, PB Siddhardha College of Arts and Sciences, Vijayawada, 6-7, March-2009.
4. Participated in National Seminar on —Recent trend in Multi-Functional Oxide Materials, Osmania University, Hyderabad, 17-18, July- 2009.
5. Presented a paper in UGC sponsored National Seminar on —Physics and Chemistry of Materials, SVRM College, Nagaram, 30-31, July-2009.
6. Participated in UGC sponsored National Seminar on —Managing Self and Others, The Hind College, Machilipatnam, 13-14, August-2009.
7. Presented a paper —Luminescence studies of Sm<sup>3+</sup>, Eu<sup>3+</sup> and Tb<sup>3+</sup> ions in barium phosphate glasses mixed with IIIa metal ions in National Seminar on —Display Phosphors and Its Applications (NSDPA-2009), Vivekananda Degree College, Bangalore, 22-23, October-2009. (2<sup>nd</sup> Best Paper)
8. Participated in —Guru master Choa Kok Sui Yoga Vidya Pranic Healing Course, Machilipatnam, October -2009.
9. Presented a paper — Physical and Optical properties of PbO-Y2O3-P2O5 glasses in UGC sponsored National Seminar on —Multi Functional Materials (NSMFM-2013), Andhra Loyola College, Vijayawada, 8-7, March-2013.
10. Conducted one day State level Seminar on —Recent Trends in Material Science on 22 February 2014.
11. Presented a paper — Spectral properties of Ho<sup>3+</sup> ion doped in Heavy Metal Oxide Glasses (SFGC-2014) in UGC sponsored National Seminar on Shaping the future with green Chemistry, Shree Padmavathi Mahila Kalasala, Machilipatnam, 27-28, June-2014.
12. Presented a paper on —challenges in Space in UGC sponsored National Seminar on Applications, Advance and Challenges in Space Research (NSAACSR-2014), P.B. Sddhartha College of Arts and Science, Vijayawada, 19-20, September-2014.
13. Presented a paper —Glass Materials in UGC sponsored National Seminar on Development of Advanced Materials in Physics and Electronics and Their Applications, Kakaraparti Bhavanarayana College, Vijayawada, 15-16, October-2014.
14. Presented a paper —Spectral investigations of Er<sup>3+</sup> doped lead bismuth borophosphate glasses in UGC sponsored National Seminar on Advanced Technology Oriented Materials (ATOM-2014), Government Arts College, Rajahmundry, 8-9, December-2014.
15. Presented a paper — Dielectric Properties of BaO-In2O3-P2O5:MoO3 glasses in UGC

- sponsored National Seminar on Multifunctional Material Synthesis and Applications (MFMSA-2015), The Hindu College, Machilipatnam, 23-24, January-2015.
16. Participated in UGC sponsored National Seminar on Recent Trends In Synthetic Organic and Natural Product Chemistry (RTSONPC-2015), Noble College, Machilipatnam, 20-21, February-2015.
  17. Presented a paper — Spectroscopic investigations of Nd<sup>3+</sup> doped HMO boro phosphate glasses in UGC sponsored National Seminar on Optoelectronic Device Materials (NSODM-2015), The Bapatla College of Arts and Sciences, Bapatla, 20, June-2015.
  18. Presented a paper — Optical absorption Spectra of MnO-doped Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> glass system in UGC sponsored National Seminar on Advanced Molecular Spectroscopic Techniques, Government Arts College, Rajahmundry, 21-22, August-2015.
  19. Presented a paper — Spectra of Bao-Zno- B<sub>2</sub>O<sub>3</sub>: MoO<sub>3</sub> glass system in UGC sponsored National Seminar on Advances in Chemical Science (NSACS-2015), Kakaraparti Bhavanarayana College, Vijayawada, 18-19, September-2015.
  20. Presented a paper — Dielectric studies of Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> glasses doped with copper ions in UGC sponsored National Seminar on Recent trends in applied physics, Addanki Govt. College, Addanki, 16-12-2015.
  21. Presented a paper — Nanotechnology and its applications in UGC sponsored National Seminar on Applications of nanomaterials in energy and environment, ASD (W) Govt. college, Kakinada, 17-18-08-2016.
  22. Attended Two day seminar NANCBS-16 at Andhra Loyola College (Autonomous), Vijayawada 14-09-16 and 15-09-16.
  23. Presented a paper in Two day seminar AMST-16 at PR GDC, Kakinada. 23 and 24-09-16.
  24. Presented a paper in Two day seminar on Energy and ecology-16 at C R REDDY college Eluru 4<sup>th</sup> and 5<sup>th</sup> of October -2016.
  25. Presented a paper in two days seminar on Recent trends in nano science and nano technology at M R College, Vijayanagaram on 26<sup>th</sup> and 27<sup>th</sup> Nov '2016.
  26. Presented a paper in Two day national seminar on — Smart Materials in JMJ college Tenali, on 30<sup>th</sup> Nov and 1<sup>st</sup> Dec.
  27. Attended two day national seminar ABCT-17 at LOYYOLA college from 20-01-17 to 21-01-17.
  28. Presented a paper Introduction to Biomaterials two day national seminar on — Recent trends in material science Andhra university 30<sup>th</sup> and 31<sup>st</sup> of May-2017.
  29. Presented a paper mathematics include in Magneto Hydrodynamics at Sri Venkateswara University, Thirupathi on 29-08-2017.
  30. Presented a paper Mathematics And Society at Sri Padmavathi Mahila Viswavidyalayam, Thirupathi on 29-08-2017 and 30-08-2017.
  31. Presented a paper Ethics In Higher Education As A Tool For Discovering Our Ultimate Destiny UGC Sponsored National Seminar On — Social Responsibility And Ethic In Higher Education in V S R & N V R College, Tenali on 01-09-2017.
  32. Presented a paper Dielectric Properties Of Lio-Zno-B<sub>2</sub>O<sub>3</sub> glasses Doped With Molybdenum Ions at S R R and C V R college, Vijayawada from 15-09-2017 to 16-09-2017.
  33. Presented a paper — How to Conduct Environment Audit in Two days National Seminar at K.B.N College, Vijayawada. 8<sup>th</sup> -9<sup>th</sup> December 2017.
  34. Presented a paper — Green Synthesis of silver and palladium nanoparticles at room temperature using coffee and tea extract in K.B.N College On 13<sup>th</sup> & 14<sup>th</sup> Dec 2017.
  35. Presented a paper — Maintain Environment Sustainability by Plantation in K.B.N College On 13<sup>th</sup> & 14<sup>th</sup> Dec 2017.
  36. Presented a paper — Renewable Energy Supply And Energy Efficiency Technologies in



two days National Seminar on Alternate Energy Resources For Sustainable Environment on 14<sup>th</sup> & 15<sup>th</sup> February 2019 at P.R.GOV'T Degree College, Kakinada.

37. Presented a paper — Physical & Optical Properties of Li<sub>2</sub>O-Sb<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glass ceramics doped with Copper Oxide in One day National Seminar on Recent Advances in Material Science at JKC College, Guntur on 14 February 2019.
38. Presented a paper — Study of Lead Yttrium Phosphate glasses containing chromium ions by means of Optical absorption in One day National Seminar on Recent Advances in Material Science at JKC College, Guntur on 14 February 2019.
39. Presented a paper — **Review On Recent Developments for Electric Applications** in One day National Seminar on Advances in Materials and Environmental Science at D.N.R. Degree College, BHIMAVARAM on 25<sup>th</sup> FEB 2019.
40. Presented paper — **Introduction to OBE** in National Level Workshop on Outcome Based Education (OBE)- Possibilities & Challenges at ANR College GUDIVADA on 22<sup>nd</sup> NOV 2019.
41. Presented paper — **'Revolution on plastic waste roads** in Two days national Seminar on — **Present Research in Green Sustainable Technologies** in Journal of Interdisciplinary Cycle Research Volume XII, Issue II, ISSN NO: 0022-1945 Impact factor 6.2 at P.R. Government college, Kakinada on 18<sup>th</sup> & 19<sup>th</sup> Dec 2019.
42. Presented paper — 'The Recent advances and their Emerging applications of Solar Photovoltaic Systems' in Journal of Information and Computational Science, Volume 10, Issue 1, ISSN: 1548-7741, Impact factor 6.2 in National Conference on RTMC-2020 at VSM College, Ramachandrapuram on 29<sup>th</sup> & 30<sup>th</sup> JAN 2020.
43. Presented paper — 'Green Concrete Materials for Sustainable Environment' in Journal of Information and Computational Science, Volume 10, Issue 1, ISSN: 1548-7741, Impact factor 6.2 in National Conference on RTMC-2020 at VSM College, Ramachandrapuram.
44. Presented paper — 'It's Time to think about recycling Li-Ion Batteries' in Journal of Information and Computational Science, Volume 10, Issue 1, ISSN: 1548-7741, Impact factor 6.2 in National Conference on RTMC-2020 at VSM College, Ramachandrapuram.
45. Presented Paper — **Innovative Solutions to Challenges in Environmental Nanotechnology** in A Two day national conference on — Advances in Agricultural and Environmental Studies, Dec. 3<sup>rd</sup> and 4<sup>th</sup> 2021. **ISBN : 978-93-85818-93-7**
46. One Day National Level Online Webinar on — Effects of Global Warming and Climate Change on 12 November, 2021 organized by Departments of Physics & Chemistry, Sri DNR Government Degree College, Palakol, West Godavari District, Andhra Pradesh, India.
47. Participated in IP Awareness/Training program under NIPAM on **March 15, 2022 Intellectual Property Office, India.**
48. Attended (Conference Id: PSANABS301) the **Virtual National Conference on Plasma Science and Applications (PSA-2021)**, organized by the **Department of Physics, Sardar Vallabhbhai National Institute of Technology Surat** from 20<sup>th</sup> - 21<sup>st</sup> December 2021.
49. Participated and presented a paper entitled "Empowering Rural Communities: Integrating Science, Technology and Commerce for Sustainable Development" in the Two-Day National Seminar on "Empowering Rural Communities: Employment Opportunities and Transformative Strategies" held on 24<sup>th</sup> & 25<sup>th</sup> March, 2025.  
[https://drive.google.com/file/d/1AtbZdv\\_THbsVdEopFYDDbzIP2X-evlvJ/view?usp=sharing](https://drive.google.com/file/d/1AtbZdv_THbsVdEopFYDDbzIP2X-evlvJ/view?usp=sharing)

➤ **Workshops/FDP/Webinars ATTENDED (30): -**

1. Participated in Two days 'workshop on — e-learning and effective teaching' at JNTU, Hyderabad from 08-10-2009 to 09-10-2009.
2. Participated in one day workshop on — Multifunctional Materials at Banaras Hindu University, Varanasi on 06-12-2010.

3. Participated in UGC sponsored two days'workshop on —Value education Cellll at KBN College,Vijayawada from 24-07-2015 to 25-07-2015.
4. Participated in one day workshop on — Light Emitting Devices and Materials
5. (LEDM-2015) ll at Rajahmundry Arts College, Rajahmundry on 20-11-2015.
6. Participated in Two days'workshop on —Experimental research facilities in physicsll
7. At JNTU,Vizianagaram on 01-07-2016 and 02-07-2016.
8. **Conducted one day workshop on Renewable Energy Sources on 20 August 2018.**
9. Participated two days —Science Academies 'Lecture Workshop on Higher Energy Physicsll at M.R.College ,Vijayanagaram on 9<sup>th</sup> & 10<sup>TH</sup> August 2018.
10. Participated in one day National Workshop on —Intellectual property Rights-Issues And Challengesll in K.B.N College, Vijayawada on 13<sup>th</sup> NOV 2018.
11. Participated in one day National Workshop on —Benefits and Challenges of Interdisciplinary Researchll in K.B.N College, Vijayawada on 23<sup>rd</sup> NOV 2018.
12. Participated in one day national workshop on —Academia-Industry Interface: strategies and perspectives for Resource Management and Organizational Developmentll at A.S.D.Govt Degree College for Women, Jagannaickpur, Kakinada on 5-9-2019.
13. Partisipatedin One day national workshop on Emerging trends in renewable energy resources at Y.N.College, Narsapur on 3-Aug-2019.
14. Partisipated one day national workshop on —Academia-Industry Interface:strategies and perspectives for Resource Management and Organizational Developmentll at A.S.D.Govt Degree College for Women ,Jagannaickpur, Kakinada on 5-Sep-2019.
15. Participated in Regional workshop —Skil Development — at S.K.R.College for Women, Rajamahendravaram on 12-Dec-2019.
16. Participated A Five - day APCCE US Faculty Development Programme on New Knowledge in Physics and Energy materials: Advanced Research Techniques from 6<sup>th</sup> July to 10<sup>th</sup> July 2020.
17. Participated One Week Faculty Development Programme on "Entrepreneurship, Incubation and Innovation" from June 23 - June 29, 2020.
18. Participated A National Level 3 Day Virtual Faculty Development Program on "MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)"
19. Participated e -FDP on Teaching, Learning and Evaluation from 15<sup>th</sup> to 19<sup>th</sup> June-2021.
20. Participated in the One Week National E-Workshop on "Rural Techpreneurship Development" held from 15/12/2021 to 21/12/2021.
21. Participated Three Day International Webinar on "Functional Materials and Its applications" from 25<sup>th</sup> to 27<sup>th</sup> March-2021 at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
22. Participated in ONE WEEK INTERNATIONAL WORKSHOP ON —SHAPE YOUR FUTURE – SHARE NOT YOUR IDEASll from 21st March to 26th March 2022 organised by IQAC, Placement Cell & JKC of GDC, Avanigadda.
23. Attended the Indo-Japan Workshop on —Silicon Crystal Growth for Photovoltaic Applicationsll on 7th January 2022, jointly organized by SSN Research Centre, SSN Institutions, Chennai and Nagoya University, Japan.
24. Participated 7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) organised by S.E.S College, Sreekandapuram in association with The Kerala State Higher Education Council (KSHEC) from 18 January to 25 January 2023.
25. Participated 6 Day FDP (TOT) in English Medium of Instruction from 12<sup>th</sup> to 17<sup>th</sup> June-2023 organized by CCE, Vijayawada.

26. Participated 7 Day National online FDP on OBE & essential AI tools for Teachers Organized by IQAC of Carmel College (A), Mala in association with KSHEC from 10<sup>th</sup> August to 18<sup>th</sup> August 2023.
27. Participated in SIX DAYS Online Faculty Development Programme titled "Recent Advancement In Smart Materials For Ustainable Energy Applications" Organized by The Centre For Nanoscience And Nanotechnology International Research Centre from 20<sup>th</sup> Nov to 25<sup>th</sup> Nov 2023.
28. <https://drive.google.com/file/d/1dSBBdcVUzHSzg-icU-Tive6hLPG2X8b/view?usp=sharing>
29. Participated in the 2nd One-Week Faculty Development Program on Recent Trends in Bioelectromagnetic Research and Applications organized by the School of Electronics Engineering, VIT-AP University and technically sponsored by IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section, VIT-AP IEEE Student Branch Chapter and Jyoti Electronics, during 3-9 April 2025.  
<https://drive.google.com/file/d/1UfDfCL4wI8XuaFf5t3KbIQyIKMRhEEpz/view?usp=sharing>
30. <https://drive.google.com/file/d/1uQcuIoEJsPgA2oVWPAhcGcQdsr2g78Nc/view?usp=sharing>

➤ **Refresher Course: -**

1. Completed online two - week Interdisciplinary Refresher Course in "ADVANCED RESEARCH METHODOLOGY" from 22 March - 05 April, 2023 and obtained Grade A+ Organized by Teaching Learning Centre Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC) under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.  
<https://drive.google.com/file/d/1r9wGwKJTKQ9Ypk0178heVidZjAYIZKO0/view?usp=sharing>

➤ **Evaluator: -**

Attended as Evaluator for State Level Exhibition & Project Competition on 23<sup>rd</sup> and 24<sup>th</sup> March - 2023.

1. Attended as Evaluator for District Level Exhibition & Project Competition on 22<sup>nd</sup> and 23<sup>rd</sup> February -2023.
2. Attended as Evaluator for District Level Science Congress Organized by Geethem School ,Narasanna Nagar ,Kakinada on 24-11-2022.

Platform	Profile Link / ID
ORCID	0000-0001-8180-1149
LinkedIn	<a href="http://www.linkedin.com/in/dr-s-v-g-v-a-prasad-0a8836242">www.linkedin.com/in/dr-s-v-g-v-a-prasad-0a8836242</a>
ResearchGate	<a href="https://www.researchgate.net/profile/Somarouthu-Prasad?ev=hdr_xprf">https://www.researchgate.net/profile/Somarouthu-Prasad?ev=hdr_xprf</a>
Google Scholar	<a href="https://scholar.google.com/citations?user=XESB9CIAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=XESB9CIAAAAJ&amp;hl=en</a>

Platform	Profile Link / ID
Scopus ID	57188821978
Web of Science ResearcherID	R-2274-2018