

Dr. SAGANTI SURESH

Department: Basic Sciences and Humanities

College: Seshadri Rao Gudlavalleru Engineering College

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RESIDENTIAL ADDRESS:

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ACADEMIC QUALIFICATIONS: M.Sc., M.Phil., Ph.D

ACADEMIC REWARDS / ACHIEVEMENTS:

Got certificate of merit for getting First Rank in B.Sc Final Year. Got Gold Medal in SSC.
Got Merit Scholarship in 7th class

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Associate Professor	Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru	1-10-2023 to till date
Sr. Gr. Assistant professor	Gudlavalleru Engineering College, Gudlavalleru	01-02-2007 to 30-09-2023
Asst. Professor	Gudlavalleru Engineering College, Gudlavalleru	16-07-2001 to 31-01-2007
Lecturer	Gudlavalleru Engineering College, Gudlavalleru	23-12-1999 to 15-07-2001
Lecturer	Sri Venkateswara Engineering College, Suryapeta, Nalgonda Dt.	23-11-1998 to 18-12-1999
Lecturer	Sri Gowthami Degree College, Bhongir	12-06-1997 to 13-03-1998

PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
NIL	NIL	NIL

SPECIALIZATION: Electronics

RESEARCH PAPERS / BOOKS: 20

BOOKS PUBLISHED IN PUBLICATIONS: NIL**RECENT PUBLICATIONS/CONFERENCES:**

International/ National Journals	International / National Conferences
20	09

International/ National Journals

1. Hydrothermal Synthesis and Micro-Structural, Optical and Luminescence Properties of Core-Shell Hetero Structure CdS/Zn₃(PO₄)₂ Nanocomposite G. Sreedevi, T. Pullarao, S.K. Khaja Muswareen, S.Suresh, P.Vijaya Sirisha, CH. Rajyalakshmi, and V. Jayalakshmi, Asian Journal of Chemistry, Vol. 35, No. 8 (2023), 1836-1842
2. An Enhanced Quantum Algorithm for Error Correction And Improved Quantum Computing Speed Dr.P.Sateesh, Dr.T.Vijay kumar, Dr.Y.Seetha Maha Lakshmi, Dr.S.Suresh, Dr.S.Karunakar reddy, Dr.P.Siva kumar, Dr.N.Narendra Phanikumar, G.Ramesh babu Eurasian Chemical Bulletin, 2023; Volume -12, issue-4 : Page: 2987-2999
3. Influence of valence state of vanadium ions on structural and spectroscopic features of multi-component PbO–Al₂O₃–TeO₂–GeO₂ – SiO₂ glass ceramics, AIP Conference Proceedings 2115, 030231-4, Published Online: 12 July 2019.
4. Structural and spectroscopic investigations of multi-component P₂O₅–PbO –Ga₂O₃–Dy₂O₃–Bi₂O₃ glass system: An insight to the energy transfer between Bi³⁺ and Dy³⁺ ions, AIP Conference Proceedings 2115, 030229-4, Published Online: 12 July 2019.
5. Characterization and spectroscopic studies of multi-component calcium zinc bismuth phosphate glass ceramics doped with iron ions”, AIP Conference Proceedings Volume 1942, Issue 1, 10.1063/1.5028812, April 2018
6. Role of valence state of vanadium ions on structural and spectroscopic properties of sodium lead bismuth silicate glass ceramics”, AIP Conference Proceedings Volume 1942, Issue 1, 10.1063/1.5028814, April 2018
7. Assessment of Structural state of vanadium ions in calcium bismuth borophosphate glass-ceramics by means of spectroscopic investigations, accepted for publication in S. Suresh, T. Narendrudu, A. Suneel Kumar, M.V. Sambasiva Rao, Ch. Tirupataiah, D. Krishna Rao, Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B Volume 58, Issue 2, 49-58, November 2017
8. Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbO–Al₂O₃–TeO₂–GeO₂–SiO₂ glass ceramic system-a possible material for memory switching devices, C Tirupataiah, T Narendrudu, S Suresh, PS Rao, PMV Teja, MVS Rao, D Krishna Rao, Optical Materials, 73, 7-15, November 2017
9. Optical absorption and luminescence properties of Pr³⁺ ions doped P₂O₅- PbO-Bi₂O₃- R₂ O₃ (R= Al, Ga, In) glasses, GC Ram, T Narendrudu, S Suresh, AS Kumar, MVS Rao, C Tirupataiah, D Krishna Rao, Journal of Non-Crystalline Solids 471,476-482. October 2017
10. Investigation of luminescence and laser transition of Dy³⁺ ion in P₂O₅- PbO-Bi₂ O₃- R₂ O₃ (R= Al, Ga, In) glasses, GC Ram, T Narendrudu, S Suresh, AS Kumar, MVS Rao, VR Kumar, D Krishna Rao, Optical Materials 66, 189-196. April 2017

11. Spectroscopic and structural properties of Cr^{3+} ions in lead niobium germanosilicate glasses, T. Narendrudu, S. Suresh, G.Chinna Ram, N.Veeriah, D.Krishna Rao, Journal of Luminescence volume, 183(2017) PP.17-25. March 2017
12. Physical and spectroscopic features of cobalt ions in multi-component $\text{CaF}_2\text{-ZnO-Bi}_2\text{O}_3\text{-P}_2\text{O}_5$ glass ceramics, AS Kumar, T Narendrudu, S Suresh, MVS Rao, GC Ram, DK Rao, Journal of Alloys and Compounds, 699, 392-400., March 2017
13. Spectroscopic features of copper ions in multi-component $\text{Na}_2\text{O-PbO-Bi}_2\text{O}_3\text{-SiO}_2$ glass ceramics, M.V. Sambasiva Rao, S. Suresh, T. Narendrudu, A. Suneel Kumar, , G.Chinna Ram, D. Krishna Rao, Journal of Molecular Structure, Volume 1125, PP 624–632, December 2016
14. Role of nickel ion coordination on spectroscopic properties of multi –component $\text{CaF}_2\text{-Bi}_2\text{O}_3\text{-P}_2\text{O}_5\text{-B}_2\text{O}_3$ glass – ceramics, S. Suresh, T. Narendrudu,A. Suneel Kumar, M.V. Sambasiva Rao, G.Chinna Ram, D. Krishna Rao, Optical materials, Volume 60, PP-67-73, July 2016.
15. Spectroscopic and dielectric investigations on the role of molybdenum ions in lead niobium germanosilicate glasses” T. Narendrudu,S. Suresh, A. Suneel Kumar, M.V. Sambasiva Rao, P. Srinivasa Rao, D. Krishna Rao, Journal of Non-Crystalline Solids, Volume 442 , PP 44-55, April 2016
16. Role of titanium ions on the physical and structural properties of calcium Zinc bismuth phosphate glass ceramics” A. Suneel Kumar, T. Narendrudu,S. Suresh, M.V. Sambasiva Rao, G.Chinna Ram, D. Krishna Rao, Journal of Non-Crystalline Solids, Volume 434 , PP 62-70, Jan 2016
17. Influence of local structural disorders on spectroscopic properties of multi-component $\text{CaF}_2\text{-Bi}_2\text{O}_3\text{-P}_2\text{O}_5\text{-B}_2\text{O}_3$ glass ceramics with Cr_2O_3 as nucleating agent” S. Suresh, T. Narendrudu, S. Yusub, A. Suneel Kumar, V. Ravi Kumar, N. Veeraiah, D. Krishna Rao Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 153, 15 , Pages 281-288. January 2016
18. Structural investigations of lead germanosilicate glasses doped with Nb_2O_5 by means of spectroscopic and dielectric studies,T. Narendrudu,S. Suresh, S. Yusub, A. Suneel Kumar, Ch. Rajyasree, M.V. Sambasiva Rao, V. Ravi Kumar, D. Krishna Rao, Journal of Molecular Structure,Volume 1098, 15, Pages 181–190. October 2015
19. Physical and spectroscopic properties of multi-component $\text{Na}_2\text{O-PbO-Bi}_2\text{O}_3\text{-SiO}_2$ glass ceramics with Cr_2O_3 as nucleating agentM.V. Sambasiva Rao, Ch. Rajyasree, T. Narendrudu, S. Suresh, A. Suneel Kumar, N. Veeraiah, D. Krishna Rao, Optical Materials, 47 (2015) 315–322.September 2015
20. Structural investigation of vanadium ions doped $\text{Li}_2\text{O PbO B}_2\text{O}_3 \text{-P}_2\text{O}_5$ glasses by means of spectroscopic and dielectric studies,S. Yusub, T. Narendrudu, S. Suresh, D. Krishna RaoJournal of Molecular StructureVolume 1076, 5, Pages 136–146. November 2014

International / National Conferences

1. **Dr. S.Suresh: Influence of valence state of vanadium ions on structural and spectroscopic features of multi-component $\text{PbO-Al}_2\text{O}_3\text{-TeO}_2\text{-GeO}_2\text{-SiO}_2$ glass ceramics**, AIP Conference Proceedings 2115, 030231-4, Published Online: 12 July 2019.
2. **Dr. S.Suresh: Structural and spectroscopic investigations of multi-component $\text{P}_2\text{O}_5\text{-PbO-Ga}_2\text{O}_3\text{-Dy}_2\text{O}_3\text{-Bi}_2\text{O}_3$ glass system: An insight to the energy transfer between Bi^{3+} and Dy^{3+} ions**, AIP Conference Proceedings 2115, 030229-4, Published Online: 12 July 2019.

3. "Characterization and Spectroscopic Studies of Multi-component Calcium Zinc Bismuth Phosphate Glass Cermics doped with Iron Ions" in 62nd DAE Solid State Physics Symposium sponsored by Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India held in Bhabha Atomic Research Centre, Mumbai, from 26 -30 December, 2017 Volume 1942, Issue 1, PP-070014, DOI 10.1063/1.5028812.
4. "Role of valence State of vanadium ions on structural and spectroscopic properties of sodium lead bismuth silicate glass ceramics" in 62nd DAE Solid State Physics Symposium sponsored by Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India held in Bhabha Atomic Research Centre, Mumbai, from 26 -30 December, 2017, Volume 1942, Issue 1, PP-070016, DOI 10.1063/1.5028814.
5. "Physical and spectroscopic of CuO doped CaF₂-Bi₂O₃-P₂O₅-B₂O₃ glass ceramics" - International conference on Advances in Glass Science & Technology (ICAGST – 2017) held at CSIR Central Glass & Ceramic Research Institute, Kolkata, 23-25 January 2017.
6. "Influence of niobium ions on spectroscopic and dielectric properties of lead germanosilicate glasses" in International Seminar on "Glasses and other Functional Materials" held at Dept. of Physics, Acharya Nagarjuna University, Guntur, from 11th to 13th December, 2014.
7. "Impact of Manganese Ions on Spectroscopic and Electrical Properties of Lithium Lead Borophosphate Glasses" in National conference on "Applied Physics and Materials Science" held at Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031, Telangana, India from 1st to 2nd August, 2014.
8. "Innovative Strategies for Effective Teaching learning" ISTE convention, Gudlavalleru Engineering College, Gudlavalleru from 21st to 22nd November 2009.
9. "Use of Computer Software as a tool for class room Demonstration" 23rd National IAPT convention, held at Bangalore from 17th to 19th October 2008.

LIST OF WORKSHOPS ORGANIZED:

One day Workshop on "NANO JATHA" at Gudlavalleru Engineering College, Gudlavalleru on 20-12-2019.

3-Day Workshop On "Scope of sciences and maths in engineering" at Gudlavalleru Engineering College, Gudlavalleru from 11-08-2011 to 13-08-2011.

LIST OF WORKSHOPS /SEMINARS ATTENDED:

1. Attended a National nodal centre conference organized by VALUE Virtual Labs at Amrita Vishwa Vidyapeetham University on 9th September, 2015.
2. Attended a two day national seminar on "Emerging Techniques in Physics Teaching and Training" (ETPTT-2015) organized by department of Physics, S.V.R.M. College, Nagaram, Guntur Dt. on 07th & 08th August, 2015.
3. Attended Two Week ISTE workshop on Signals & Systems at Gudlavalleru Engineering College, Gudlavalleru from 2nd to 12th January, 2014 organized by Indian Institute of Technology, Kharagpur.
4. Attended One week refresher course on "Electronic Devices and Circuits" from 23rd to 28 September 2013. Organized by Dept. of ECE, Gudlavalleru Engineering College, Gudlavalleru.
5. Attended National workshop "Recent Advances in Physics" 3rd to 4th March, 2008 organized by Dept. of Physics, Kakatiya University, Warangal.
6. Attended AICTE – ISTE – STTP on "Inculcating Human Values in Technical Education" from 23rd to 27th June 2008 organized by SRKR Engineering College, Bhimavaram.
7. Attended Short term course on "Advanced Experimental Techniques" from 6th to 10th February 2006 organized by Dept. of Physics IIT Guwahati.
8. Attended Refresher Course on "Communication Skills in English from 15th to 20th September 2005 organized by jointly by UGC Academic Staff College JNTU, Hyderabad & Gudlavalleru Engineering College, Gudlavalleru.
9. Attended IAPT sponsored National seminar on Emerging Trends in Physics – Celebration of Centenary of 1905 from 12th to 13th August 2005 organized by Dept. of Physics Kamala Institute of Technology of Science Huzurabad, Karimnagar.

10. Attended National seminar on Physics of Non-Crystalline Materials (PNCM 2004) from 29th to 31st December 2004 organized by Dept. of Physics, ANU PG Centre, Nuzvid.
11. Attended Short course on “Instructional Design and Delivery” from 21st to 26th April 2003 organized by TTTI, Chennai.
12. Attended National Workshop on “Recent Advances in Liquid Crystals and Liquid Crystal Displays” from 24th to 26th April 1999 organized by Dept. of Physics, Sri Krishnadevaraya University, Anantapur.
13. Attended Short course on “Instruction Design and Delivery Systems” from 26th to 30th October 1998 organized by TTTI, Extension Centre Hyderabad.

LIST OF ONLINE WORKSHOPS /SEMINARS ATTENDED:

1. Attended online webinar on “ Recent advances in materials for sensing and energy harvesting” on 22nd June,2020 organized by Department of Physics, VFSTR, Vadlamudi , Guntur, Andhra Pradesh.
2. Attended international webinar on “ Science and technology of thin films” on 23rd June,2020 organized by Department of H&S, Malla Reddy Institute of technology, Secunderabad, Telangana.
3. Attended online webinar on “Supercapacitors :New age energy storage devices” on 19th May,2020 organized by Department of Physics, Ayya Nadar Janaki Ammal college, Sivakasi , Tamilnadu.
4. Attended One-week Online Faculty Development Programme on “The use of Virtual Physics Labs -Creating Next Generation Teachers” during 20-24, July,2020 organized by Department of by Department of Freshman Engineering, Geethanjali College of Engineering and Technology, Cheeryal , Telangana.
5. Attended National webinar on “ Recent advances in Physics” 10th June,2020 organized by Department of Physics and IQAC, Government College for Men, Kurnool, Andhra Pradesh.
6. Attended A National Level 3 Day Virtual Faculty Development Program on “ Moving to master science in technology” during 18- 20th June,2020 organized by Freshman Engineering Department, PSCMR college of engineering and technology , Vijayawada, Andhra Pradesh.
7. Attended one day online workshop on “ Book &Article publishing and SpringerLink platform demonstration” on 29th April,2020 organized Gurunanak Dev University, Amritsar, Punjab.
8. Attended webinar on “Relevance of IEEE standards in Teaching, Learning and Industry Collaborations” 4th June,2020 organized by EBSCO Information Services.
9. Attended webinar on “ The future of skills-Education, Employment & Entrepreneurship” 13th May,2020 organized by ICT Academy.
10. Attended international virtual conference on “ High- performance materials for Energy, environment & Healthcare in the Digital Era” during 30th June&1st July 2020 organized by Centre for Materials Technology, School of Advanced Sciences, VIT, Vellore.
11. Attended one week online certificate course on “ Digital Teaching Techniques” during 29th June-04th July, 2020 organized by ICT Academy
- 12 Attended one week National level online faculty development programme on “ An Academic Perspective on Research” During 3rd -7th August ,2020” Organized by SRKR, Bhimavaram
- 13 Participated & completed successfully ATAL online FDP on “ Internet of Things(IOT)” During 7th to 11th December,2020 ,Seshadri Rao Gudlavlleru Engineering College

**14.Participated in the webinar “ Fifth Generation(5G) Wireless communication Technology-Role of Advanced Ceramics”3rd October,2023,
SR University, Warangal, Telangana**

CERTIFICATIONS:

One year Course Higher Degree in Software Engineering (Aptech) – in collaboration with Gudlavalleru Engineering College, Gudlavalleru 10-09-2003.

- NPTEL Certificate for Completing the course “Laser: Fundamentals and Applications”
- NPTEL Certificate for Completing the course “An Introduction to Materials: Nature and properties (Part 1: Structure of Materials)
- NPTEL Certificate for Completing the course “ Solid State Physics”
-

INDUSTRIAL TRAINING: NIL

- Delivered Guest Lecturer On the occasion of “**National Science Day**” at A.A.N.M. & V.V.R.S.R Polytechnic, Gudlavalleru, Krishna District on 28 February 2018.
- **Delivered a Lecturer on “Virtual labs and their implementation” on 16/09/2017 At Aditya Engineering College, Peddapuram.**
- **GUEST LECTURES DELIVERED:** Delivered a Lecturer on “Physics of Semiconductor devices” in One week refresher course on “Electronic Devices and Circuits” from 23rd to 28 September 2013.Organized by Dept. of ECE, Gudlavalleru Engineering College, Gudlavalleru.

MEMBERSHIP IN PROFESSIONAL BODIES: LMIAPT, LFOSI, LMMRSI. LMIAL

CONSULTANCY ACTIVITIES: NIL

GRANTS FETCHED: 18,32,000 as Co-Principle Investigator for DST Project -Velugu Bata