
CURRICULUM VITAE

Dr. B.J.R.S.N. SWAMY

Department of Physics
Krishna University – Dr. MRAR College of PG
Studies, Nuzvid, Andhrapradesh,
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PERSONAL PROFILE:

- Name : BHOGI JAYARAMA SATYANARAYANA SWAMY
- Father's Name : SANYASI RAO
- Phone No. : +91-9490367189
- Date of Birth : 01-01-1979
- Marital Status : Married
- Languages known : English, Telugu
- Nationality : Indian

Academic Qualifications	University	College / Institution	Year of passing	% of marks
Ph.D	Acharya Nagarjuna University, Guntur	A.N.U. P.G. Centre Nuzvid	2015	'A' Grade
M.Phil	Acharya Nagarjuna University, Guntur	A.N.U. P.G. Centre Nuzvid	2007	'A' Grade
M.Sc.	Acharya Nagarjuna University, Guntur	A.N.U. P.G. Centre Nuzvid	2004	72.8% (I Div. with distinction)
B.Sc. (M.P.C.)	Acharya Nagarjuna University, Guntur	D.A.R. College, Nuzvid	1999	63.6%
Intermediate (M.P.C.)	Board of Intermediate Education	D.A.R. College, Nuzvid	1996	59.9%
SSC	Board of Secondary Education	S.R.R.Z.P.H. School, Nuzvid	1994	77.3%

Ph.D. Thesis Title: “*Studies on thermoluminescence and dielectric properties of gamma-ray irradiated $\text{CaF}_2\text{-P}_2\text{O}_5\text{-B}_2\text{O}_3\text{: MnO/CuO}$ glasses*”

Research experience: 14 years

Teaching experience: 15 years

❖ Publications	: 16
❖ Seminars attended & presented papers	
➤ International conferences	: 09
➤ National Conferences	: 18
➤ Workshops	: 06
➤ FDP	: 13

Experience in teaching:

1. Worked as Lecturer in Physics at Sri Siddhartha Degree College, Nuzvid, for the period of 2004 to 2015.
2. Worked as Guest Faculty in Physics Department, Krishna University- Dr. MRAR P.G. Centre, Nuzvid, from 2015-2018.
3. Worked as Academic Consultant in the Department of Physics, K.R.U. Dr. M.R.A.R. PG Centre, Nuzvid from 21-12-2018 to 26-06-2020.
4. Working as Assistant Professor (Ad-hoc) in the Department of Physics, KRU Dr. MRAR College of PG Studies, Nuzvid from 27-06-2020 to till date.

Awards Received: Associate Fellow of Andhra Pradesh akademi of Sciences

Patents: Filed

1. Apparatus for sanitizing articles with rotatable inner chamber to evenly distribute UV radiation
P. V. Nanda Kishore, A. Chitti Babu, J. Ashok, P. Raghava Rao, N. Narasimha Rao, **B. J.R.S.N. Swamy**, N. Rajeswara Rao, P. Naresh & S. N.S. Manasa
Application No.202141022452 A.
2. A Study of Magnetic properties of Dy doped YFeO₃ Multiferroics
G. Padmasree, D. Lakshmi, M. Sumalatha, A. Chitti Babu, P. Raghava Rao, N. Narasimha Rao, **B.J.R.S.N.Swamy**, N.Ch.Ramesh Babu
Application No: 202241003612 A. Date: 04/02/2022

List of Publications

1. Thermo luminescence study of MnO doped borophosphate glass samples for radiation dosimetry
B.J.R. Swamy, Bhaskar Sanyal, Y. Gandhi, R.M. Kadam, V. Natarajan, P. Raghava Rao and N. Veeraiah
Journal of Non-Crystalline Solids **368** (2013) 40–44
2. Influence of copper ions on thermoluminescence characteristics of CaF₂—B₂O₃—P₂O₅ glass system
B.J.R.S. Swamy, Bhaskar Sanyal, R. Vijay, P. Ramesh Babu, D. Krishna Rao, N. Veeraiah
Ceramics International **40** (2014) 3707–3713
3. Influence of γ -ray-induced effects on dielectric dispersion of CuO-doped calcium fluoroborophosphate glass system
B.J.R.S. Swamy, R. Vijay, P. Ramesh Babu, Bhaskar Sanyal, V. Ravi Kumar, D. Krishna Rao, I.V. Kityk, N. Veeraiah
International Journal of Ionics **22** (2016) 1625-1634
4. Study of gamma ray induced defect centers in MnO doped calcium fluoro borophosphate glasses by means of EPR spectroscopy N. Veeraiah a,n, Y.Gandhi b, R.M.Kadam c, **B.J.R.Swamy** a, B.Suresh a, V.Natarajan c, V. RaviKumar a **Materials Letters** **167(2016)284–287**
5. Spectroscopic and physical properties of erbium doped Li₂O–BaO–P₂O₅ glasses
N.Ch. Ramesh Babua, P. Raghava Rao, N. Narasimha Rao, **B.J.R.S.N. Swamy**, M.Vasu Babu, G. Naga Raju, N. Veeraiah
Materials Today: Proceedings **5** (2018) 26314–26321
6. 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).
7. The dielectric properties of PbO–B₂O₃–Bi₂O₃ glasses doped with V₂O₅
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
8. Influence of silver ions on dielectric properties of CaF₂–MoO₃–P₂O₅ 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.

9. Optical properties of Tm³⁺ ions in MO (M= Li, Na and K) – A₂O₃–P₂O₅ glass systems
P. Raghava Rao, N. Narasimha Rao, **B.J.R.S.N.Swamy**, N.Ch. Ramesh Babu, A.Chittibabu, T.Raghavendra Rao, T.Sambasiva Rao
Journal of Advanced Research in Polymer and Textile Engineering
1(2020)21-29.
10. The Influence of Vanadium Ions in Spectral Properties of ZnO–Sb₂O₃–B₂O₃ 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**
11. Influence of Ti³⁺ ions on Spectroscopic Properties of PbO–Al₂O₃–B₂O₃ Glass Systems
N. Narasimha Rao, P. Raghava Rao, **B. J.R.S.N. Swamy**, P. Naresh, A. Chitti Babu, N. Ch.Ramesh Babu
American Institute of Physics Conference Proceedings 2369, 020049 (2021);
<https://doi.org/10.1063/5.0061412>
12. Optical Absorption Spectra of PbO-NaF-B₂O₃ Glass doped with Ln³⁺ (Sm³⁺/Ho³⁺) Ions
N. Narasimha Rao, **B. J.R.S.N. Swamy**, P. Raghava Rao
International Journal of Scientific Research in Science, Engineering and Technology **9 (2022)120-125** <https://doi.org/10.32628/IJSRSET229135>
13. Photoluminescence Spectrum of PbO-NaF-B₂O₃ Glass Doped with Ln³⁺ (Sm³⁺/Ho³⁺) Ions
N. Narasimha Rao, B. J.R.S.N. Swamy, **P. Raghava Rao**, P. Naresh, A. Chitti Babu
Journal of Material Sciences & Engineering **11 (2022) 619**
Doi: [10.37421/jme.2022.11.619](https://doi.org/10.37421/jme.2022.11.619)
<https://www.hilarispublisher.com/open-access/photoluminescence-spectrum-of-pbonafb2o3-glass-doped-with-ln3-sm3ho3-ions-87747.html>
14. Physical and spectroscopic properties of PbO –ZnF₂ – B₂O₃ glasses doped with CuO
N. Narasimha Rao, P. Naresh, **P. Raghava Rao**, B.J.R.S.N. Swamy, A. Chitti Babu
Materials Today Proceedings (2023)
<https://doi.org/10.1016/j.matpr.2023.04.382>
15. Dielectric features of ZnO – CaF₂ – R₂O (R = Li, Na & K) – B₂O₃: CuO glasses
P. Naresha, N. Narasimha Rao, **P. Raghava Rao**, B.J.R.S.N. Swamy, A. Chitti Babu, B.Suresh
Materials Today Proceedings (2023)
<https://doi.org/10.1016/j.matpr.2023.06.046>

16. Influence of modifier oxide on spectroscopic features of ZnO–CaF₂–CuO– B₂O₃: R₂O glasses (R=Li, Na & K)

N. Narasimha Rao, P. Naresh , **P. Raghava Rao**, B.J.R.S.N. Swamy, A. Chitti Babu

American Institute of Physics Conference Proceedings 2768(2023)020005

<https://doi.org/10.1063/5.0148341>

M.Sc. Projects Supervised: Dr. B. J.R.S.N. Swamy

Assistant Professor (contract)

Department of Physics,

KRISHNA University Dr. MRAR PG Centre,

Nuzvid – 521 201.

M.Sc. Project Dissertation			
1	Mr. Ch. Suresh Ms. Ch. Jaya Lakshmi Ms. D. Roja Mr. G. Prudhvi Raju Ms. I. Ratna Kumari Ms. S. Jansi Rani	May - 2019 Krishna University	Spectroscopic investigations on ZnO-Al ₂ O ₃ -B ₂ O ₃ glasses doped with TiO ₂
2	Ms. M. Chandini Priyanka Ms. M. Sai Bhargavi Mr. N. Gopi	September - 2020 Krishna University	Spectroscopic investigations on copper oxide doped ZnO-CaF ₂ -B ₂ O ₃ glass system

	Ms. P. Sowmya Vathi		
3	Mr. P. Narendra Ms. R. Lakshmi Ms. S. Jayasree Ms. Sk. Anjum Mr. Sk. Rajavali Mr. T. Venkateswara Rao Ms. V. Haritha	September - 2021 Krishna University	Influence of Ti ³⁺ ions on Spectroscopic properties of PbO - Al ₂ O ₃ - B ₂ O ₃ glasses
4	Ms .R. Swathi Sri Ms. S. Jahnavi Sujatha Ms .S. L.R. Anusha Ms. Sk. Abdul Asma Mr. T. Ravi Teja Ms. V. Rajyam Ms .Y. Hema Sowjanya	August - 2022 Krishna University	Influence of Pr ³⁺ ions on Spectroscopic properties of PbO-ZrO ₂ -SiO ₂ glasses

National & International Conferences/Seminars/ Workshops/FDP

1. National Seminar on “Physics of Non-Crystalline materials (PNMC-2004)” organized by Department of Physics, A N U P.G. Centre, Dec-2004, Nuzvid.
2. National seminar on “Advances in Amorphous Materials (NAAM-2007)” organized by Department of Physics, A N U P.G. Centre, FEB-2007, Nuzvid.
3. International Seminar on “Science and Technology of Glass Materials (ISSTGM-2009)” organized by Department of Physics, ANU & ANU P.G. Centre, MAR-2009, Guntur, A.P, India.
4. AP Science congress-2012 “Organized by Andhra Pradesh Academy of Sciences” & ANU (NOV-2012).
5. National Seminar on “Multi Functional materials (NSMFM-2013)” organized by Department of Physics, Andhra Loyola College, (MAR-2013), Vijayawada.
6. National Seminar on “Development of Advanced materials in Physics & Electronics and their Applications” organized by Department of Physics & Electronics, KBN College, OCT-2014, Vijayawada.
7. International Seminar on “ Glass and other Functional materials” organized by Department of Physics, A N U, Nagarjuna Nagar, Dec-2014, AP, India.
8. National Seminar on “Recent Trends in Applied Physics” organized by K.R.K. Govt. Degree College, December–2015, Addanki.

9. 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.
10. National Seminar on “Advances in Biomaterials & Characterization Techniques (ABCT-2017)” organized by Department of Physics, Andhra Loyola College, January-2017, Vijayawada.
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.
12. National Seminar on “Physics & Chemistry of Non-Crystalline Materials (PCNCM-2017)” organized by Department of Physics Chemistry, K.V.R. College, Nandigama, December -2017.
13. “AP Science Congress – 2018” organized by Andhra Pradesh Akademi of Sciences & Yogi Vemana University, November – 2018, Kadapa.
14. National Seminar on “Recent Advances in Material Science” organized by Department of Physics, JKC College, February-2019, Guntur.
15. National Seminar on “Optical characterization techniques” (NSOCT-2019) organized by Department of Physics, Andhra Loyola College, March-2019, Vijayawada.
16. A One Day Faculty Development Programme on “Effective writing of Research proposals” organized by NAIPUNYA at Ramachandra College of Engineering, November-2019, Eluru.
17. Two-day national workshop on “Modern methods for teaching – learning practices” 12th -13th may 2020, Krishna University Machilipatnam.
18. International webinar on “how to write a research paper” 14th may, KLE Society’s .Science & Commerce college Navi Mumbai.
19. Webinar on “e - workshop on virtual labs” 14th may 2020, Bhavans Vivekananda College Secunderabad.
20. Webinar on “ICT – AN efficient tool for effective teaching “16th may 2020, Bhavans Vivekananda College Secunderabad.
21. “National level FDP program on tools for online classroom post covid-19” 18th - 20thmay 2020, PB Siddhartha College Vijayawada
22. Five days Online FDP program on “introduction to data science” 18th – 22nd may 2020 Guntur Engineering College Guntur.

23. One-week online FDP program on “the use of virtual physics labs creating next generation teachers” 20th -24th may 2020, Geethanjali College of Engineering & Technology, Cheeryal Telangana.
24. Three days Online FDP program on “Physics of Materials” department of physics JAIN (Deemed to be university) 28th – 30th may 2020.
25. One-week online FDP program on “the use of virtual physics labs creating next generation teachers” 20th -24th may 2020, Geethanjali College of Engineering & Technology, Cheeryal Telangana.
28. Three days Online FDP program on “Physics of Materials” department of physics JAIN (Deemed to be university) 28th – 30th may 2020.
29. One-week Online FDP program on “Materials recent trends & Engineering applications” GRIET Hyderabad 2nd- 7th June 2020.
30. One week online National level FDP programme on" physics of materials" Department of physics, kalasalingam Academy of Research and Educations from 08-14 June 2020.
31. National Webinar on Recent Advances in physics" Department of physics and IQAC, Government College for men, Kurnool on 10/06/2020.
32. National Webinar on "Creative writing of Research Proposals \$ Articles" Department of physics Adikavi Nannayya University Rajamahendravaram, 4th June 2020.
33. International Webinar on “ Recent advances in Science IWCRAS2020” 30th -31st July 2020 Donbosco college Tura.
34. FDP program on “emerging technology and changing scenario on material research “ Department of basic science, 27th – 1st august 2020, Santharam Engineering college Nandyala
35. National webinar on “NACC assessment and accreditation process “ 04-08-2020, Krishna University Machilipatnam.
36. One-week Online FDP program on “Emerging Physics and Material science” 03rd -07th august 2020, Department of physics Chaitanya Bharathi Institute of Technology Hyderabad.
37. Three day International webinar on “synthesis and characterization of Nano Materials and their applications” department of Physics 17th -19th 2020, RGUKT AP.
38. Two day national level workshop on “Google tools to online teaching” by Krishna University Machilipatnam.26th -27th august 2020.
39. Online FDP program on “Recent trends in physics”, 31st august – 02nd

September 2020 St Joseph College of engineering Chennai.

40. National level two day online workshop on “Applications of Mathematical science “ 10th -11th September 2020 by Department of Mathematics KRU Dr.MRAR PG center Nuzvid
41. Two day International Webinar on” Recent Advances in Material Science & Engineering “23rd -24th September 2020. SVCR degree college Palmaner.
42. Three day international webinar on “IMPACT OF PHYSICS IN HEALTHCARE” Dept of Physics Maris Stella College Vijayawada 14th -16th 2020
43. Five day FDP on “synthesis of Advanced Materials And its applications” Dept of Physics Usharama College of Engineering and technology 15th -19th October 2020
44. Three day virtual national workshop on “ Advanced Materials for Energy and Environment applications” Yogi Vemana University, Kadapa 21st -23rd December 2020
45. One Day International webinar on “advances in material Physics” Rayan Publishers 23rd January 2021.
46. National Webinar on characterization of materials Department of physics, K.L.E.F., Vijayawada, 30th November 2020.

DECLARATION

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

Place:

Date:

(B.J.R.S.N. Swamy)