

CURRICULUM VITAE

Dr. P. SOBHANACHALAM
M.Sc.,B.Ed.,Ph.D.,CSIR-NET,AP-SET

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Krishna University,
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Career Objective:

Aiming for an opportunity as a physics professor that will enable me to hold a responsible position which enables the sustained growth and recognition, and where I can contribute to the best of my skills and efforts for the growth of the Organization.

Strengths:

- Self – Confidence
- Positive Thinking
- Adaptability
- Problem solving skills

Personal Profile:

- Name : Dr. P. Sobhanachalam
- Father's Name : KrishnaRao
- Mother Name : Vydevamma
- Date of Birth : 13th July, 1982
- Marital Status : Married
- Languages known : Telugu, English
- Nationality : Indian

Academic Profile:

Academic Qualifications	Board /University	Year of passing
Ph.D-Physics (<i>Materials Science</i>)	Acharya Nagarjuna University, A.P., India	February, 2019
M.Sc Physics (Solid State Physics)	Acharya Nagarjuna University, A.P., India	2006
B.ed (physical science)	Bachelor of education	2007
B.Sc (Maths, Physics and Chemistry)	Acharya Nagarjuna University, A.P., India	2003
Intermediate (Maths, Physics and Chemistry)	S.V. Jr. College, Gannavaram, A.P., India	2000
SSC	ZPH School, Agiripalli, A.P., India	1998

Academic Achievements:

1. Qualified **CSIR-NET** held on 23rd Dec 2012 with H.T. No: 513733.
2. Qualified **APSET** held on 27th July 2012 with H.T. No: 161605375.
3. **Ratified as Assistant Professor** from LBRCE Under JNTUK Ratification interviews Dated: 03-11-2014 to 05-11-2014.

Book

1. Published a book entitled with “High Voltage Engineering” with ISBN:9789357579780 by Scientific International Publication

Patent:

1. Patent Application Publication: New Copper catalysts For High Efficiency Click Chemistry Reactions with Application Number: 202341066666A, Issue No: 42/2023. Published On 20.10.2023.(Date of Filing of Application;4.10.23)

Awards:

1. Honoured with Best Faculty Award during the academic year 2022-23 in Science and Technology Under the Category of “PHYSICCS” Specialization by Novel Research Academy Puducherry India ISO 9001:2015 Certified. UDYAM REGD.NO; PY-03-0003542 Registered Under the Ministry of MSME. Govt. of India., Ref: NRA/BFA/0113042/2023

Administrative Positions:

- Worked as a Department Coordinator in Krishna University
- Worked as Placement Coordinator in department level
- Worked as Alumni Coordinator in department level
- Presently working as Academic Audit cell Coordinator in Krishna University.

Leadership Qualifications:

Motivating, Leading a team
Responsibility, Self Motivating.

Technical Qualification:

Languages : MS Office, Internet Concepts

Area of Research: Physics/Materials Science/ Glasses and Ceramics/ Bio Active glasses

During my research I have well acquainted with preparation of inorganic glass systems viz., phosphate, arsenate, borate, silicate etc. and characterization of the materials by XRD, SEM, DTA/ DSC techniques. During this tenure I have operated Instruments like Absorption Spectrometer, Fourier Transform Infrared Spectrometer, XRD, emission, DSC/DTA independently.

Research experience: 8 years

Number of papers published: 9, Conferences attended: 24

Research activities/Abilities of Applicant:

1. Synthesis and characterization of Bioactive glass materials by means of spectroscopic studies.
2. Evaluation of insulating character of glass materials by means of dielectric studies and the structural evaluation of the glass materials.
3. IR, Raman, ESR, optical absorption spectra and magnetic susceptibility studies of glass systems doped with different transition metal ions and to probe the local structure of the dopants.
4. Luminescence studies of glass materials doped with transition metal ions and rare earth ions.
5. Ph.D on *In vitro bioactive studies on CoO, Fe₂O₃, Ce₂O₃ doped calcium fluoro boro phosphate glasses mixed with some therapeutically active ions*

Teaching Experience: 17 years

1. Worked as Lecturer in physics at Saahithi Degree College, Yellandu - in Khammam Dt. For a period of 2006-2009.
2. Worked as Asst. Prof. in Physics at Lakireddy Balireddy College of engineering Mylavaram for a period 2009-2015.
3. Worked as a guest faculty at Acharya Nagarjuna university in physics during 2016 to 2018
4. Worked as Associate. Prof. In physics at NRI Institute of technology, Pothavarappadu, for a period 2018-23rd Jan 2021.
5. Currently working as Asst. Prof. (Contract) in the Department of Physics, Krishna University from 25-01-2021 to till date.

List of Publications

S. No.	Title, Authors & Journal of Publication –International	Thomson and Reuters Impact Factor
1	Synthesis and in vitro characterization of cerium oxide mixed calcium oxy fluoro borophosphate bioactive glasses by means of spectroscopic studies, P. Sobhanachalam , V. Ravi Kumar, N. Venkatramaiah, Y. Gandhi, N. Veeraiah; <i>Journal of Non-Crystalline Solids</i> , 498 (2018) 422-429.	2.60 (Elsevier) SCI Indexed Journal
2	In vitro investigations on CoO doped CaF ₂ -CaO-B ₂ O ₃ -P ₂ O ₅ -MO bioactive glasses by means of spectroscopic studies P. Sobhanachalam , V. Ravi Kumar, B.V. Raghavaiah, Valluri. Ravi Kumar, G. Sahaya Baskaran, Y. Gandhi, P. Syam Prasad, N. Veeraiah; <i>Optical Materials</i> 73 (2017) 628-637	2.72 (Elsevier) SCI Indexed Journal

3	On identifying efficient modifier oxide in improving bioactivity of Fe ₂ O ₃ doped calcium oxy fluoro borophosphate glasses, P. Sobhanachalam , Ch. Vijaya Kumari, G. Sahaya Baskaran, P. Syam Prasad, N. Veeraiah, V. Ravi Kumar; <i>Journal of Alloys and Compounds</i> , 692(2017) 219-226	4.65 (Elsevier) SCI Indexed Journal
4	<i>In vitro</i> degradation studies on bioactive calcium fluoroborophosphate glasses mixed with some modifier oxides-influence of therapeutically active vanadium ions, Ch. VijayaKumari, V. RaviKumar, P. Sobhanachalam , P. VenkateswaraRao, G. SahayaBaskaran, N.Veeraiah; <i>Materials Chemistry and Physics</i> , 205 (2018) 376-390	3.408 (Elsevier) SCI Indexed Journal
5	Bioactive properties of CuO doped CaF ₂ -CaO-B ₂ O ₃ -P ₂ O ₅ -MO (M=Ba, Sr, Zn, Mg) glasses, Ch. VijayaKumari, P. Sobhanachalam , C.K. Jayasankar, N. Veeraiah, V. RaviKumar; <i>Ceramics International</i> 43(2017) 4335-4343	3.640 (Elsevier) SCI Indexed Journal
6	Bioactive behaviour of NiO substituted CaF ₂ -CaO-B ₂ O ₃ -BaO-P ₂ O ₅ glasses by means of spectroscopic studies Ch Vijaya Kumari, Y. Gandhi, P. Sobhanachalam , A. Siva Sesha Reddy, N. Venkatramaiah, P. Venkateswara Rao, V. Ravi Kumar	2.72 (Elsevier) SCI Indexed Journal
7	Comprehensive study of the structural establishesthe relations among the electrical propertied of eco-friendly NBTMn-BAI-NaNb ceramics. G. V.V. Bhaskara Rao, P Sobhanachalam , vijayadasaradha.	Scopus International
S. No.	Title, Authors & Journal of Publication –Conference papers	Thomson and Reuters Impact Factor
1	Spectroscopic investigations of copper doped Zinc Bismuth Arsenate glass Ceramics. G. Krishna Priya, Ch. Chandrakala, P. Sobhanachalam , V. Aruna	One day national seminar in UGC approved journal
2	Spectroscopic features of Sm ³⁺ ions in ZnO-MoO ₃ -B ₂ O ₃ glass systems. P. Sobhanachalam , V. Ravi kumar, B. Madhavi, V. Prasad	One day national seminar in UGC approved journal

List of National/ International Conferences/Seminars/Workshops attended and paper presentations

S. No	Date	Conference/ Seminar/Org.	Title/Authors	International/ National
1.	7 th -9 th August 2023	3-day Virtual International Conference	Materials Chemistry for Energy & Environmental Applications-2023 Organized by Department of Chemistry, Madanapalle Institute of Technology & Science, Madanapalle Andhra Pradesh India	International
2.	28 th Feb 2023	National Level Online Quiz	National level online quiz on the Occasion of “NATIONAL SCIENCE DAY’ organized by the Department of PHYSICS Krishna University Dr. M.R. Appa Row College of PG Studies, Nuzivid, Andhra Pradesh	National
3.	14.10.22- 20.10.22	7 days training Program	“Dimensions of wellness” organized by Research foundation of India &RFI -CARE	National
4.	29.08.2022 - 03.09.2022	Organized One Week FDP	One Week FDP on “Recent Advances on Material Characterizations” organized by Department of Physics, Krishna University, Machilipatnam.	National
5.	11.07. 2022 to 16.07.2022	One Week FDP	“Enhancing the academic and intellectual environment in the higher educational institutes” organized by Research & Development, Krishna University	National
6.	27.6. 2022 2.7. 2022	One Week FDP	Research Opportunities & Funding Agencies” (online) organized by Research & Development, Krishna University	National
7.	1.12.2021	Guest Lecture	A Guest Lecture on “An Overview of the Characterization Techniques” Jointly Organised by the Department of Physics, K.L.E.F., Guntur, Andhra Pradesh, India and Materials Research Society of India (MRSI),	National

			Bangalore, India.	
8.	18.09.21	webinar	Organised one day national webinar on “medical physics in cancer care and radiation protection”	National
9.	28.7.21	One day online workshop	Innovation, Ecosystem and incubation	National
10.	18.8.21	One day national webinar	Telugu Jnanpith purskar animuthyalu	National
11.	2.7.21	One day online workshop	Faculty on Microsoft Teams	Regional
12.	12.6.21	One day international webinar	Recent advances in material science and technology	international
13.	27.5.2020	One day national webinar	Usage of ICT tools for effective class room teaching	National
14.	26.5.2020	Online quiz	National Level Quiz on NAAC	National
15.	25.5.2020	Online quiz	Awareness on outcome based education and accreditation process	Regional
16.	25.5.2020	Online quiz	“E-QUIZ ON HIGHER EDUCATION SYSTEM”	National
17.	25.5.2020	One day national webinar	“Faculty Awareness Programme on NBA to keep in touch with NBA Accreditation”	National
18.	16.5.2020	Online quiz	International day of light	National
19.	3 rd and 4 th October 2019	Two day faculty development Program	Participated	Regional
20.	Feb-Mar 2019	NPTEL Teaching and learning in Engineering	completed	National
21.	14 th Feb. 2019	One day national seminar on Recent advances in Material Science	Presented a paper titled with Spectroscopic features of sm^{3+} ions in ZnO-MoO ₃ -B ₂ O ₃ glass systems	National
22.	1 st & 2 nd Feb. 2019	Two day science academies’ Lecture workshop on “Applications of quantum mechanics to Optics”’ Dept. of Physics and Electronics, KBN College, Vijayawada, Krishna District, A.P	Participated	Regional
23.	5 th and 6 th Jan. 2019	Work shop on outcome based education, NRIIT, Pothvarappadu, Agiripalli, Krishna District, A.P	Participated	Regional
24.	19 th and 20 th Jan.	NBA awareness program, NRIIT,	Participated	Regional

	2019	Pothvarappadu, Agiripalli, Krishna District, A.P		
25.	18 th Dec. 2018	One day international seminar on “Nano technology for the future energy challenges” Dept. of Physics and Chemistry of P.B Siddhartha college of Arts and Science, Vijayawada, Krishna District, A.P	Presented a paper titled with synthesis and structural investigations of lithium borate glasses with MnO ₂ nano powders, Dr. P. Sobhanachalam , G. Krishna priya, Ch. chandrakala and Dr. Salma begum	International
26.	1 st &2 nd Dec. 2017	National Seminar on Physics and Chemistry of Non-Crystalline Materials/ Dept. of Physics and Chemistry of KVR College, Nandigama, Krishna District, A.P	Presented a paper entitled “Bio active properties of CoO and V2O5 doped CaF ₂ -CaO-B ₂ O ₃ -P ₂ O ₅ -MO (MO= Ba, Sr, Zn, Mg) glasses, P. Sobhanachalam and V. Ravi Kumar	National
27.	15 th &16 th September, 2017	National Seminar on “Recent Trends in Chemistry and Physics of Materials”/Dept. of Chemistry S.R.R.&C.V.R. Govt. Degree college, Vijayawada.	Presented a paper entitled with In vitro bioactive studies of calcium fluoro boro phosphate glasses doped with therapeutically active ions, P. Sobhanachalam and V. Ravi Kumar	National
28.	22 nd &23 rd February, 2017	A Two day Inter National Seminar on ‘Materials for the Societal Advancement with Emphasis on Health and Energy’/ P.B. Siddhardha college of Arts & Science, Vijayawada	Presented a paper entitled with ‘Optical properties of zinc oxide nanoparticles by precipitation method’ P. Sobhanachalam	Inter National
29.	Jan. 19 th – 21 st ,2017	International Conference on Environmental impact of Advanced Materials and Energy Technologies/ AV College of Arts, Science & Commerce Hyd.	Presented a paper entitled with ‘Bioactive studies of CaF ₂ -BaO-CaO-B ₂ O ₃ -P ₂ O ₅ :CuO/Fe ₂ O ₃ glasses’ P. Sobhanachalam and V. Ravi Kumar	Inter National
30.	Jan. 20 th – 21 st ,2017	National Seminar on “Advances in Biomaterials & Characterization Techniques”/ Dept. of	Presented a paper entitled “Bioactive studies of CaF ₂ -BaO-CaO-B ₂ O ₃ -P ₂ O ₅ : CuO/Fe ₂ O ₃ glasses” P. Sobhanachalam and V. Ravi Kumar	National

		Physics, Andhra Loyola College, Vijayawada		
31.	Jan. 3 rd - 7 th , 2017	104 th Indian Science Congress, Tirupati 3 rd - 7 th Jan. 2017/ The Indian Science Congress Association	Presented a paper entitled “Bioactive studies of calcium oxy fluoro boro phosphate glasses doped with Fe ₂ O ₃ ” P. Sobhanachalam and V. Ravi Kumar	National
32.	19 th Nov. (2016)	One day National Seminar on Material Science and Technology/Dept. of Physics, V.R. Siddhartha Engg. College, Vijayawada	Participated	National
33.	26 th Sept. 2016.	Regional seminar on “Advances in atmospheric and space physics”/ P.B. Siddhardha college of Arts & Science, Vijayawada	Participated	Regional
34.	27-29 Jan. 2016	A.P Science Congress, Tirupati 27-29 Jan. 2016/ AP Akademi of Sciences	Presented a paper entitled “Spectro Scopic studies on ZnO-B ₂ O ₃ ;Ta ₂ O ₅ glass ceramics” P. Sobhanachalam and V. Ravi Kumar	National
35.	7 th & 8 th Oct. 2015	Two day national conference on “Need and role of nano sciences in the present ERA”/ P.B. Siddhardha college of Arts & Science, Vijayawada	Participated	National
36.	16 th & 17 th Dec. 2017	National Seminar on “Recent trends in applied physics”/K.R.K. Govt. Degree college, Addanki.	Participated	National
40	09 th Oct. 2015	Acquaintance Programme of “Applications of accelerators based research”/ Inter University Accelerator Centre, New Delhi, in collaboration with Dept. of Physics,	Participated	Acquaintance Programme

		Acharya Nagarjuna university.		
37	25 th & 26 th Nov. 2015.	National Seminar on Advances in Materials Science, Dept. of Electronics and Instrumentations, ANU, Guntur	Presented a paper entitled “Dielectric and IR spectral properties of V ₂ O ₅ doped pbO-B ₂ O ₃ -Bi ₂ O ₃ glasses”. P. Sobhanachalam and V. Ravi Kumar	National
38	29 th and 30 th Nov. 2013.	National Seminar on “Recent trends in surface science and Nano technology”/Potti Sri Ramulu Chalavadi Mallikarjuna Rao college of Engineering, Vijayawada.	Participated	National
39	8 th to 12 th August. 2011	Indo-US Collaboration for Engineering Education conducted the Course “Green Energy Systems”/LBRCE, Mylavaram.	Participated	Faculty leadership programme
40	2 nd Dec. 2011	National Seminar on “Role of nanotechnology in emerging trends”/ LBRCE, Mylavaram.	Participated	National
41	18 th Dec. 2010	One day workshop on Research opportunities for women & young Scientists in Engineering Science & Technology.	Participated	National
42	25 th Sep. 2010	Seminar on “Physics For Engineers”/ Stanley college of Engineering & Technology For Women, Hyderabad.	Participated	National

DECLARATION:

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

Date: 4-3-2024

Place: Machilipatnam



(P. Sobhanachalam)