


FACULTY PROFILE

Name of the Faculty:	Dr. M.V. SAMBASIVA RAO					
Designation:	Assistant Professor					
Department:	Physics					
Date of Birth:	05/07/1980					
AICTE – ID:	1-430173346					
Education	<ul style="list-style-type: none"> B.Sc. M.P.C group from ANU in 2001 B.Ed. Physical Science from ANU IN 2006 M.Sc. in Pure Physics Specialization from Andhra University in 2003 M.Phil. in Physics from Alagappa University, Karaikudi, Tamil Nadu in 2009 Ph.D. in Glass science specialization from ANU in 2018 					
Experience	Teaching: 20 Years	Total: 27 Years				
	Research: 7 Years					
Research Specialization	Glass science & Ceramics					
Courses taught	<ol style="list-style-type: none"> 1.B.Sc. Physics papers Vol. I,II,III and IV 2. Engineering Physics, Waves and Modern Physics, Advanced Optics and Material Testing & Semiconductor Physics and Nano materials 3.Classical Mechanics 4.Statistical Mechanics 					
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Influence of chromium ions on photonic applicability of Na ₂ O-Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ glass system	<i>Optics Communication</i> s	(2021)	480	12649 6	SCOPUS
2	<i>Dielectric and spectroscopic investigations on zinc arsenate glasses with Bi₂O₃ as additive</i>	<i>Materials Today: Proceedings;</i>	(2019)	19	2639- 2644	SCOPUS

3	"Physical and spectroscopic properties of multi-component Na ₂ O–PbO–Bi ₂ O ₃ –SiO ₂ glass ceramics with Cr ₂ O ₃ as nucleating agent"	<i>Optical Materials,</i>	(2015) (Elsevier),	47	315–322.	Scopus
4	Spectroscopic features of copper ions in multi-component Na ₂ O-PbO-Bi ₂ O ₃ -SiO ₂ glass ceramics"	<i>Journal of Molecular Structure</i>	(2016) (Elsevier);	1125	624-632.	Scopus
5	Assessment of role of iron ions on the physical and spectroscopic properties of multi-component Na ₂ O–PbO–Bi ₂ O ₃ –SiO ₂ glass ceramics	<i>Phase Transitions</i>	(2018) (Taylor & Francis);	91(1)	92-107	Scopus
6	Role of valence state of vanadium ions on structural and spectroscopic properties of sodium lead bismuth silicate glass ceramics.	AIP Conference Proceedings	(2018) ;	1942,	070016	Scopus
7	Characterization, optical and luminescence features of cobalt ions in multi-component PbO-Al ₂ O ₃ -TeO ₂ -GeO ₂ -SiO ₂ glass ceramics	<i>Optical Materials</i>	(2019)	88	289-298	Scopus
8	Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbO-Al ₂ O ₃ -TeO ₂ -GeO ₂ -SiO ₂ glass ceramic system- a possible material for memory switching devices	<i>Optical Materials</i>	(2017)	73	7-15	Scopus
9	Microstructure and spectroscopic investigations of calcium zinc bismuth phosphate glass ceramics doped with manganese ions	<i>Indian Journal of Physics</i>	(2018)	92(1):	97–109	Scopus
10	Optical absorption and luminescence properties of Pr ³⁺ ions doped P ₂ O ₅ -PbO Bi ₂ O ₃ -R ₂ O ₃ (R= Al, Ga, In) glasses	<i>Journal of Non-Crystalline Solids</i>	(2017)	471	476–482	Scopus
11	Investigation of luminescence and laser transition of Dy ³⁺ ion in P ₂ O ₅ -PbO- Bi ₂ O ₃ -R ₂ O ₃ (R= Al, Ga, In) glasses	<i>Optical Materials</i>	(2017)	66	189-196	Scopus
12	Assesment of structural state of vanadium ions in calcium bismuth borophosphate glass ceramics by means of spectroscopic investigations	Physics and Chemistry of Glasses: <i>European Journal of Glass</i>	(2017)	58(2)	49-58	Scopus

		<i>Science and Technology Part B,</i>				
13	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	<i>Journal of Alloys and Compounds;</i>	(2017)	699	392-400	Scopus
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	<i>Optical materials;</i>	(2016)	60	67-73	Scopus
15	Spectroscopic and dielectric investigations on the role of molybdenum ions in lead niobium germanosilicate glasses	<i>Journal of Non-Crystalline Solids</i>	(2016)	442	44-55	Scopus
16	Role of titanium ions on the physical and structural properties of calcium Zinc bismuth phosphate glass ceramics	<i>Journal of Non-Crystalline Solids</i>	(2016)	434	62-70	Scopus
17	Structural investigations of lead germanosilicate glasses doped with Nb_2O_5 by means of spectroscopic and dielectric studies	<i>Journal of Molecular Structure,</i>	(2015)	1098	181-190	Scopus
18	Characterization and spectroscopic studies of multi-component calcium zinc bismuth phosphate glass ceramics doped with iron ions	<i>AIP Conference Proceedings</i>	(2018)	1942,	070014	Scopus
19	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	<i>AIP Conference Proceedings</i>	(2019)	2115,	030231	Scopus
20	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	<i>AIP Conference Proceedings</i>	(2019)	2115,	030229	Scopus

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

S.No.	Name of the event	Organized by	Dates
1	67th DAE Solid State Physics Symposium	BARC, Mumbai,Sponsored by BRNS & DAE Govt. of India, at GITAM ,Vizag	20/12/2024 to24/12/2024
2	National Conference on Synergies in Chemistry, Material science and Quantum computers (SCMQ-2024)	Dept. of Chemistry, Bapatla Engineering College, Bapatla	29/1/2024 to 31/1/2024
3	DST & SERB sponsored National conference on Advances in Functional Materials and Photonocs (NAFP-2024)	Centre for Emerging Materials, Physics, KLU	5/1/2024 to 6/1/2024
4	AICTE Recognized Faculty Development Programme on “Preparing Students for the Placements - Resume, GD and Interview	Education and Educational Management Department At Bapatla College of Pharmacy, Bapatla, Andhra Pradesh	17/07/2023 to 21/07/2023 (One Week)
5	AICTE Recognized Faculty Development Programme “Outcome Based Curriculum Design”	Curriculum Development Centre Department at Bapatla College of Pharmacy, Bapatla, Guntur, A.P.	05/09/2022 to 09/09/2022 (One Week)
6	National conference on“Recent Advances in Functional Materials” (NCRFM-2023)	Physics Department, Vignan’s Foundation science,Technology and Research, Guntur	24th& 25th March- 2023,
7	National seminar on Basic Research And Nanoscience (BRAIN-2021)	Dept. of Nanotechnology, ANU	on 30th& 31st Jan2020
8	UGC sponsored National Seminar on Recent Trends in Nano science & Nanotechnology (NSRTN-2020) on	Dept. of Nanotechnology, ANU	30th& 31st Jan.2020.
9	National Conference on Functionality of Advanced Materials (NCFAM- 2019)	Organized by Dept. of Physics, Vignan university	24th &25 June 2019
10	A one day International seminar on Emerging Trends in Chemistry and it"s Allied Sciences	Dept. of Chemistry, BCAS and Royal society of Chemistry (LONDON,UK) LOCAL SECTION Decan, India	23rd December,2019

11	A national seminar on Emerging Trends and Advances in Multifunctional Materials (NSETAFM-2019)	Dept. of Physics, ANU	10th & 11th Dec 2019
12	63rd DAE Solid State Physics Symposium	BARC, Mumbai , Sponsered by BRNS & DAE Govt. of India , at GJUST, Hissar, Haryana	Dec 18-22, 2018
13	62nd DAE Solid State Physics Symposium	BARC, Mumbai , Sponsered by BRNS & DAE Govt. of India, at BARC, Mumbai.	Dec 26-30, 2017
14	UGC sponsored National Seminar on Resent Research Developments in Higher Education (RRDH- 2016)	Andhra Christian College, Guntur	6 th & 7 th , December, 2016
15	UGC sponsored National Seminar on Optoelectronic Device Mterials (NSODM-2015)	Dept. of Physics at Bapatla college of Arts & Sciences, Bapatla	20 th June 2015
16	UGC, DRDO & APSCHE sponsored national seminar on Advances in Material Science (NSAMS-15).	Dept. of Electronics & Instrumentation Technology, ANU, Guntur	25th and 26th November-2015
17	Paper presented in UGC, DST & APSCHE sponsored international seminar on Glasses and other Functional Materials (isgfm-2015)	Dept. of Physics, ANU, Guntur.	11-13th December-2014
18	Paper presented in AICTE sponsored national conference on Nanotechnology in Chemical and Allied Industries (NTCAI-2014)	Dept. of Chemical Engineerng at Bapatla Engineering College	conducted and 8 th March 2014
19	UGC sponsored National Seminar on Solar Energy Harvesting Through Photovoltaic Cells And Storage (SEHTPVAS-2013)	Dept. of Physics and Chemical engineering at R.V.R. & J.C. College of Engineering, Guntur.	21-22 June, 2013
20	Faculty Development Program on Applications of Nano Technology	Dept. of Chemistry and Mechanical engineering at V.R. Siddhartha Engineering College, Vijayawada	21 st April 2014
21	UGC, CSIR, BRNS, DBT, AERB, DRDO sponsored National Seminar on Advances in Amorphous Materials (NAAM-2007)	Dept. of Physics, Acharya Nagarjuna University P.G. Centre, Nuzvid, A.P.	1-3, February, 2007
22	National Seminar on Emerging	Physics, V.S.R &	27 th & 28 th

Trends in Physics Education And Experimental Physics (NSPE-2016)	N.VR College, Tenali, A.P.	October, 2006 organized by Dept. of
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Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Best teacher award	Bapatla Education Society	2022-23

Administrative experience

S.No.	Role	Duration (From – to)
1	Department Research Coordinator	(2022 To till date)
	I class Coordinator & Mentor	(2022 To till date)
	I.B.Tech. ECEA students class Coordinator	(2022 To till date)
	I.B.Tech. ECEA students class Mentor	(2017-2020)
	I.B.Tech. MECH-B students Bectagon Member	(2009 to till date)
	Stack Verification Member	(2009 to till date)
	Sports Committee Member	(2015 to till date)
	Sports Committee Member	(2015 to till date)

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?user=FbXSKd8AAAAJ&hl=en
SCOPUS	56667611000
Web of Science/ORCID	0000-0002-9534-8215
Vidwan ID	324236

Any other relevant information

(Dr. M.V.SAMBASIVA RAO)

18-02-2024