

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	- 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 - Ph.D. in Glass science specialization from ANU in 2018					
Experience	Teaching: 20 Years	Industry: ____ Years	Total: 27 Years			
	Research: 7 Years	Others: ____ Years				
Research Specialization		Glass science & Ceramics				
Courses taught	1.B.Sc. Physics papers Vol. I,II,III and IV 2. Engineering Physics, Waves and Modern Physics, Advanced Optics and Matereial Testing & Semiconductor Physics and Nano materials 3.Classical Mechanics 4.Statistical Mechanics 5.Solid state Physics					
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 s</i>	(2021)	480	126496	SSCOPUS
2	<i>Dielectric and spectroscopic investigations on zinc arsenate glasses with Bi₂O₃ as additive</i>	<i>Materials Today: Proceedings;</i>	(2019)	19	2639-2644	SSCOPUS
3	"Physical and spectroscopic properties of multi-component Na ₂ O-PbO-Bi ₂ O ₃ -SiO ₂ glass	<i>Optical Materials,</i>	(2015) (Elsevier),	47	315–322.	Scopus

	ceramics with Cr₂O₃ as nucleating agent”					
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 Science and Technology Part B,</i>	(2017)	58(2)	49-58	Scopus

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

Books published

S. No.	Title of the book	Publisher	year
1	-	-	-

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	-	-	-	-

Details of Patents (Filed & Granted)				
S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	-	-	-	-
Details of Conferences/FDPs/STTPs/webinars/Workshops Organized				
S.No.	Name of the event	Role	Dates	
1	-	-	-	
Details of Conferences/FDPs/STTPs/webinars/Workshops Participated				
S.No.	Name of the event	Organized by	Dates	
1	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)	
2	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)	
3	National conference on "Recent Advances in Functional Materials" (NCRFM-2023)	Physics Department, Vignan's Foundation science, Technology and Research, Guntur	24 th & 25 th March-2023,	
4	National seminar on Basic Research and Nanoscience (BRAIN-2021)	Dept. of Nanotechnology, ANU	on 30 th & 31 st Jan2020	
5	UGC sponsored national on Recent Trends in Nano science & Nanotechnology (NSRTN-2020) on	Dept. of Nanotechnology, ANU	30 th & 31 st Jan2020.	
6	National Conference on Functionality of Advanced Materials (NCFAM- 2019)	Organized by Dept. of Physics, Vignan university	24 th & 25 June 2019	
7	A one day International seminar on Emerging Trends in Chemistry and it's Allied Sciences	Dept. OF Chemistry, BCAS and Royal society of	23rd December, 2019	

		Chemistry (LONDON,UK) LOCAL SECTION Decan, India	
8	A national seminar on Emerging Trends and Advances in Multifunctional Materials (NSETAFM-2019)	Dept. of Physics, ANU	10 th & 11 th Dec 2019
9	63 rd DAE Solid State Physics Symposium	BARC, Mumbai, at GJUST, Hissar, Haryana	Dec 18-22, 2018
10	62 nd DAE Solid State Physics Symposium	BARC at Mumbai	Dec 26-30, 2017
11	UGC sponsored National Seminar on Recent Research Developments in Higher Education (RRDH- 2016)	Andhra Christian College, Guntur	6 th & 7 th , December, 2016
12	UGC sponsored National Seminar on Optoelectronic Device Materials (NSODM-2015)	Dept. of Physics at Bapatla college of Arts & Sciences, Bapatla	20 th June 2015
13	UGC, DRDO & APSCHE sponsored national seminar on Advances in Material Science (NSAMS-15).	Dept. of Electronics & Instrumentation Technology, ANU, Guntur	25 th and 26 th November-2015
14	Paper presented in UGC, DST & APSCHE sponsored international seminar on Glasses and other Functional Materials (isgfm-2015)	Dept. of Physics, ANU, Guntur.	11-13 th December- 2014
15	Paper presented in AICTE sponsored national conference on Nanotechnology in Chemical and Allied Industries (NTCAI-2014)	Dept. of Chemical Engineering at Bapatla Engineering College	conducted and 8 th March 2014
16	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
17	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
18	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
19	National Seminar on Emerging Trends in Physics Education And Experimental Physics (NSPE-2016)	Physics, V.S.R & N.VR College, Tenali, A.P.	27 th & 28 th October, 2006 organized by Dept. of

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1			

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
	-	-	-	-	-

Consultancy contribution

S.No.	Year	Amount	Details
1	-	-	-

Student Project/research guidance

S.No	Level	Total number
1	UG	Completed: - Ongoing:-
2	PG	Completed: 7 Ongoing:-
3	PhD	Completed: - Ongoing:-

Administrative experience

S.No.	Role	Duration (From – to)
1	I.B.Tech. MECH-B students class Coordinator & Mentor I.B.Tech. ECEA students class Coordinator I.B.Tech. ECEA students class Mentor Bectagon Member Stack Verification Member Sports Committee Member M.Sc. SSP Lab incharge	(2017-2020) (2022 To till date) (2022 To till date) (2009 to till date) (2009 to till date) (2015 to till date) (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	JED-8701-2023/0000-0002-9534-8215
Vidwan ID	324236
Any other relevant information (Dr. M.V.SAMBASIVA RAO) 14-09-2023	