


FACULTY PROFILE

Name of the Faculty:		Dr. A. Ramesh Babu				 <p style="text-align: center;">Photo</p>
Designation:		Assistant Professor				
Department:		Physics				
Date of Birth:		01-06-1975				
AICTE – ID:		1-1515271950				
Education		<ul style="list-style-type: none"> • B.Sc in __ABR Degree college_____ from __ANU_____University/Institute in 2000 • M.Sc in __Physics__Specialization from __ANU____ University/Institute in 2002 • PhD in __Physics(Glass science)_____ specialization from __ANU____ University/Institute in 2013 				
Experience		Teaching: _15_ Years	Industry: ___Years	Total: __23years__ Years		
		Research: _5_ Years	Others: ___3 Years			
Research Specialization		Glass science and Material science				
Courses taught		1.1/4B. Tech-Semiconductor physics and Nano Materials 2.1/4B. Tech-Advanced optics and Material testing 3. 4/4B. Tech(Elective)-Nano Materials 4.MSc-Quantum mechanics-I 5. MSc- Quantum mechanics-II				
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)
1	Ascendancy of Cr ₂ O ₃ on morphology, spectroscopic and	Materials Chemistry and	2023	304	127889	SCOPUS

	dielectric properties of GeO ₂ -Li ₂ O-P ₂ O ₅ -MgO glasses	Physics				
2	Electrical and spectroscopic characteristics of B ₂ O ₃ -Bi ₂ O ₃ -Al ₂ O ₃ -MgO glasses alloyed with MnO	Journal of Physics and Chemistry of solids	2022	170	110957	SCOPUS
3	Impact of copper ions on physical, structural, spectroscopic, and dielectric properties of Bi ₂ O ₃ -CaO-P ₂ O ₅ -B ₂ O ₃ glasses	Materials Chemistry and Physics.	2022	290	126584	SCOPUS
4.	The influence of Cu ²⁺ ions on the ionic, electronic conductivity and optical characteristics of Li ₂ O-SrO-B ₂ O ₃ system	Journal of Non Crystalline Solids.	2022	575	121210	SCOPUS
5	The eminence of copper ions on optical, electrical properties and morphology of B ₂ O ₃ -Bi ₂ O ₃ -Al ₂ O ₃ -MgO glasses	Journal of Non Crystalline Solids	2021	564	120844	SCOPUS
6	Efficacy of copper ions on lithium ion conductivity, electron hopping, optical band gap, metallization criterion and morphology of Li ₂ O-B ₂ O ₃ -P ₂ O ₅ glasses	Journal of Non Crystalline Solids	2020	536	120015	SCOPUS
7	Ascendancy of iron ions on lithium ion conductivity, optical band gap, Urbach energy and topology of LiF-SrO-B ₂ O ₃ glasses	Journal of Non Crystalline Solids	2020	533	119906	SCOPUS
8	Effect of Cr ₂ O ₃ on the structural, optical and dielectric studies of LiF-SrO-B ₂ O ₃ glasses	Journal of Non Crystalline Solids	2019	520	119428	SCOPUS
9	Spectroscopic investigations of LiF-SrO-B ₂ O ₃ glass system doped with V ₂ O ₅	Journal of Applied Science and computations	2018	5	1076-5131	Google Scholar
10	Electron Paramagnetic Resonance and Optical	Pramana research	2018	8		Google Scholar

	absorption studies of Chromium ions doped borophosphate glasses	journal				
11	Influence of alkaline earth oxides on (R=Ba, Ca, Sr) on spectroscopic and dielectric properties of iron doped RO-Na ₂ O-B ₂ O ₃ glasses	Journal of Non Crystalline Solids	2013	364	62-68	SCOPUS
12	Influence of molybdenum ions on spectroscopic and dielectric properties of ZnF ₂ -Bi ₂ O ₃ -P ₂ O ₅ : MoO ₃ glass ceramics	Journal of Non Crystalline Solids	2012	358	3372-3381	SCOPUS
13	Structural changes in ZnF ₂ -Bi ₂ O ₃ -GeO ₂ glass system doped with Fe ₂ O ₃ by spectroscopic and dielectric investigations	Journal of Physics and chemistry of Solids	2013	74	963-970	SCOPUS SCOPUS
14	Structural impact of cobalt ions on BaO-Bi ₂ O ₃ -B ₂ O ₃ glass system by means of Spectroscopic and dielectric studies	Journal of Molecular Structure	2013	1033	2000-2007	SCOPUS
15.	Structural impact of iron ions on BaBiBO ₄ glasses: Spectroscopic and dielectric investigations	Journal of Non Crystalline Solids	2012	358	2597-2605	SCOPUS
16.	Structural and electrical properties of ZnF ₂ -Bi ₂ O ₃ -GeO ₂ glass doped with CoO	Journal of Molecular Structure	2012	1014	119-125	SCOPUS
17	Effect of Bi ₂ O ₃ proportion on physical, structural and electrical properties of zinc bismuth phosphate glasses	Journal of Non Crystalline Solids	2011	357	3585-3591	SCOPUS
18	Spectroscopic properties and dielectric dispersion of K ₂ O-BaO-B ₂ O ₃ glasses doped with Fe ₂ O ₃	Indian Journal of Pure & Applied Physics	2011.	49		SCOPUS
19	Influence of molybdenum ions on the structure of ZnO-As ₂ O ₃ -Sb ₂ O ₃ glass system by means of	Journal of Non Crystalline	2010	356	1754-1761.	SCOPUS

	spectroscopic and dielectric studies	Solids				
20	Dielectric dispersion and spectroscopic properties of NaF-SrO-B ₂ O ₃ glasses doped with V ₂ O ₅	IOP Conf. Series: Materials Science and Engineering.	2009	2	012021.	SCOPUS
21	Vanadyl ions influence on Spectroscopic and dielectric properties of LiF-SrO-B ₂ O ₃ glass network	Journal of Molecular Structure	2011	1005	83-90	SCOPUS
22	Influence of manganese ions on spectroscopic and dielectric properties of LiF- SrO-B ₂ O ₃ glasses	Journal of Non Crystalline Solids	2012	358	1391-1398	SCOPUS
23	Cogeneity of chromium ions in strengthening spectroscopic and dielectric properties of B ₂ O ₃ -Bi ₂ O ₃ -Al ₂ O ₃ -MgO glass materials	J Mater Sci: Mater Electron	2025)	36:	1790	SCOPUS
24	Influence of V ₂ O ₅ on optical bandgap, Urbach energy, and a.c. conductivity of multi component B ₂ O ₃ -P ₂ O ₅ -CaO-Bi ₂ O ₃ glasses	PHYSICAB	2026	ACC EPTE D(March 2nd)	Manuscript no- PHYSB-D-26-00253R 1	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	202441100233A	Magneto-Resistive Memory Devices Based on Re-entrant Magnetic Phases in Orthoferrite CaFeO₃ Nanoparticles	3/1/2025	Published

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

S.No.	Name of the event	Role	Dates
1	QTETPC-2026-	Staff Organizer-	Feb24-26,2026-

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

S.No.	Name of the event	Organized by	Dates
1	National Seminar on Advanced Functional Device Materials (NCAFDM 2023)	Department of Physics, University college of sciences, Acharya Nagarjuna University	27 th and 28 th February,2023
2	International Conference on Emerging Trends in Science and Technology-2022)	Department of Humanities and Sciences, PACE institute of Technology and Sciences	1 st and 3 rd December,2022
3	Basic research and Analysis in NanoScience” (BRAIN-2021)	Department of Nanotechnology, Acharya Nagarjuna University	18 th and 19 st March,2021
4	Recent Trends in Nanoscience and Nanotechnology”(NSRTN-2020)	Department of Nanotechnology, Acharya Nagarjuna University	30 th and 31 st January,2020
5	National seminar on Emerging Trends and Advances in Multi Functional Materials(NSETAFM-2019)	Department of Physics, Acharya Nagarjuna University	10 th and 11 th December,2019.
6	Physics and Chemistry of Non-Chrystalline Materials’	Kakani Venkata Ratnam College ,	December 1 st &2 nd , 2017

		Nandigama.	
7	Recent Research Developments in Higher Education (RRDH-2016)	Internal Quality Assurance Cell, Andhra Christian College, Guntur.	December 6 th &7 th , 2016
8	Trends and Applications of Liquid Crystals (NSLC-2015)	Andhra Christian College, Guntur.	10 th and 11 st September, 2015
9	Emerging Trends in Physics Teaching and Training (ETPTT-2015)	S.V.R.M. College, Nagaram	7 th and 8 st August, 2015
10	Glasses and other functional materials(ISGFM-2014)	Department of Physics, ANU.	December 11-13, 2014
11	National seminar on ‘Recent trends in Advanced materials	Sir C.R. Reddy Autonomous college, Eluru	27 th and 28 th January 2012
12	Novel Materials for Display Applications’	SVRM college, Nagaram	28-29 th October, 2010
13	Analytical Techniques on Materials Characterization	Andhra Loyola College, Vijayawada and Luminescence Society of India	February 19-20, 2010
14	Physics and Chemistry of Materials	S.V.R.M. College, Nagaram	30 th and 31 st July, 2009
15	International Seminar on Science and Technology of Glass Materials (ISSTGM-2009)	The Departments of Physics, ANU and Nuzvid Campus	March 16-19, 2009
16	Outcome Based Curriculum Design	AICTE, Chandigarh	5/9/22 to 9/9/2022
17	International conference on Advances in chemical engineering	IICHE, Bengalore, HIT Colcotta	April 14-16, 2022
18	Quality improvement via Accrediation and Ranking	IQAC-BEC, Bapatla	28 th -29 th June, 2021
19	Inculcating Universal Human values in Technical Education	AICTE, New Delhi	5-9 th , October, 2020
20	FDP on Nanomaterials for sustainable Future	GMR INSTITUTE OF TECHNOLOGY	12-16 December, 2022
21	FDP on Quantum Coputing Algorithms and future computing	SRR Engineering	18 th to 23 August

		College	
22	Preparing Students for the Placements - Resume, GD and Interview	NITTTR	17/07/2023 to 21/07/2023 (One Week)
23	Methods of research and publication ethics	NITTTR	17/02/2025 to 21/02/2025 (One Week)

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	BOS Member	St. Ann's College of Engineering, Chirala	2022-23 TO TILL NOW
2	BOS Member	RV Institute of Technology, Chebrolu	2023-24
3	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2020-21
4	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2021-22
5	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2022-23
6	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2023-24
7	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2024-25
8	Best Teacher Award	Bapatla Engineering College	2024-25
9	Reviewer of INSPIRE Awards-MANAK	National Innovation Foundation-INDIA	2025-26

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: 0 8	Ongoing:0
3	PhD	Completed: 0	Ongoing:0

Administrative experience

S.No.	Role	Duration (From – to)
1	Mechanical Coordinator	2014-2022
2	Mechanical Mentor	2022-23
3	Discipline Committee	2018-2020
4	Food Committee	2021-2023
5	JVD Coordinator(Physics)	2023-24
6	Stock verification committee Member	2020-23

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?user=rkF6xCQAAAAJ
RCID	0000-0002-7114-4998
SCOPUS ID	54411141800
Vidwan ID	324233

Any other relevant information

Dr.A.Ramesh Babu
(Name)