


FACULTY PROFILE

Name of the Faculty:		Dr.V.Aruna				
Designation:		Associate Professor & HOD				
Department:		Physics				
Date of Birth:		31.05.1969				
AICTE- ID:		1-430280991				
Education		<ul style="list-style-type: none"> B.Sc in M.P.E. from Sri Venkateswara University in 1989 M.Sc(Tech) in _Engg.Physics from S.V.U college of Engineering in 1992 PhD in Glass science from S.V.University in 1999 				
Experience		Teaching: 27 Years	Industry: ____ Years		Total: 30 Years	
		Research: 3 Years	Others: ____ Years			
Research Specialization		Glass science/Material science				
Courses taught		<ol style="list-style-type: none"> Engineering Physics Mathematical physics, Quantum Mechanics I, Quantum mechanics II, Advanced Quantum Mechanics, Atomic and Molecular Physics, Resonance Spectroscopy, Advanced Optics and Material Testing, Semiconductor Physics and Nanomaterials, Computational Methods and Programming 				
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/ SCOPUS, Google scholar)
1	Fabrication of InVO ₄ /SnWO ₄ heterostructured Photocatalyst for efficient photocatalytic	Environmental Research	2023	220	115191E	Scopus

	degradation of tetracycline under visible light					
2	Ascendancy of Cr ₂ O ₃ on morphology, spectroscopic and dielectric Properties of GeO ₂ -Li ₂ O-P ₂ O ₅ -MgO glasses.	Materials Chemistry and Physics	2023	304	127889	Scopus
3	Novel Indium Vanadium Oxide Nanosheet-Supported Nickel Iron Oxide Nanoplate Heterostructure for Synergistically Enhanced Photocatalytic Degradation of Tetracycline.	Catalysts	2022	12	1471	Scopus & WOS
4	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
5	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 Solid	2022	170	110957	Scopus
6	Visible light driven indium vanadium oxide nanosheets supported bismuth tungsten oxide nanoflakes heterostructure as an efficient photocatalyst for the tetracycline degradation	Chemosphere	2022	299	134477	Scopus
7	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	1210	Scopus
8	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
9	Influence of chromium ions on photonic applicability of Na ₂ O-Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ glass system.	Optics Communications	2021	480	126496	Scopus
10	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	J. Non Crystalline Solids.	2020	536	120015	Scopus
11	Effect of Cr ₂ O ₃ on the structural, optical and dielectric studies of LiF-SrO-B ₂ O ₃	J. Non Crystalline Solids	2019	520	119428	Scopus

	glasses.					
12	Electron Paramagnetic Resonance and Optical absorption studies of Chromium ions doped borophosphate glasses	Pramana Research Journal	2018	8	215	Google scholar
13	Spectroscopic Investigations of Li ₂ O-B ₂ O ₃ -P ₂ O ₅ Glass system doped with V ₂ O ₅	J. Applied science and Computations	2018	5	42	Google scholar
14	EPR, Optical Absorption and FTIR Properties of Cobalt Doped Lithium Borophosphate Glass System	IJSRST3	2017	7	744	Google scholar
15	Fluorescence properties of Nd ³⁺ : B ₂ O ₃ -P ₂ O ₅ -TeO ₂ -Li ₂ SO ₄ glass	Ind. J. Pure & Appl. Phys.	2003	41	206	Scopus
16	Emission properties of Er ³⁺ : B ₂ O ₃ -P ₂ O ₅ -TeO ₂ -Li ₂ SO ₄ glass	Phys. Chem. glasses	2002	43	313	Scopus
17	Absorption and photoluminescence spectra of Sm ³⁺ : B ₂ O ₃ -P ₂ O ₅ -TeO ₂ -Li ₂ O glass	Mater . Res. Bull	2000	35	703	Scopus
18	Spectra of Pr ³⁺ & Ho ³⁺ : B ₂ O ₃ -P ₂ O ₅ -R ₂ SO ₄ glasses	Phys. Chem. Glasses	1998	39	323	Scopus
19	Spectral properties of Tb ³⁺ : B ₂ O ₃ -P ₂ O ₅ -R ₂ SO ₄ glasses	Mater Lett..	1998	36	24	Scopus
20	Photoluminescence spectra of LaOBr: Eu ³⁺ powder phosphors	Mater. Chem.. Phys.	1998	52	157	Scopus
21	Spectra of Sm ³⁺ & Dy ³⁺ : B ₂ O ₃ -P ₂ O ₅ -R ₂ SO ₄ glasses	Mater Res. Bull	1998	33	149	Scopus
22	Spectral properties of Pr ³⁺ & Nd ³⁺ - doped lithium borate glass	Phys. Chem. glasses	1997	38	238	Scopus
23	Spectral properties of Eu ³⁺ : B ₂ O ₃ -P ₂ O ₅ -R ₂ SO ₄ glasses	Mater. Lett.	1997	33	201	Scopus
24	Physical properties of (100-X)B ₂ O ₃ + LiF Optical glasses	Ferro electric Lett.	1996	22	15	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/WorkshopsOrganized				
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	FDP on Preparing students for the placements –Resume,GD and Interview	NITTTR ,Chandigarh	17-07-2023 to 21-07-2023	
2	Advanced Functional Device Materials	Acharya Nagarjuna University	27-02-2023 to 28-02-2023	
3	Ist International Conference on Emerging Trends in science and Technology	PACE INSTITUTE OF TECHNOLOGY & SCIENCES	01-12-2022 to 03-12-2022	
4	Outcome Based Curriculum Design	NITTTR ,Chandigarh	05-09-2022 to 09-09-2022	
5	Outcome Based Education and Examination Reforms	BEC,Bapatla	03-08-2022 to 5-08-2022	
6	Basic Research and analysis in Nanoscience	Acharya Nagarjuna University	18-03-2021 to 19-03-2021	
7	Recent Trends in Nanoscience & Nanotechnology	Acharya Nagarjuna University	30-12-2020 to 31-12-2020	
8	Inculcating Universal Human values in Technical Education	AICTE, New Delhi	5-10-2020 to 9-10-2020	
9	FDP on online Teaching learning and research methodology		18-07-2020 to 29-07-2020	
10	Material characterization Techniques	KL University	18-04-2019	
11	Intellectual Property and Innovation Management	BEC,Bapatla	31-08-2018 to 01-09-2018	
12	National seminar on physics and Non-crystalline Materials	K.V.R College,Nandigama	01-12-2017 to 02-12-2017	
13	National seminar on Recent Research Developments in Higher Education	A.C. College,Guntur	06-12-2016 to 07-12-2016	
14	Nanotechnology in chemical allied Industries	BEC,Bapatla	07-03-2014 to 08-03-2014	

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Best Teacher Award	Bapatla Educational Society	2018-2019
2	Member, P.G.Board of Studies of physics of Acharya Nagarjuna University	Acharya Nagarjuna University	2012-2014
3	Research Guideship under Acharya Nagarjuna University	Acharya Nagarjuna University	2013

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount Rs.	Year/ duration
1	Spectroscopic properties of Transition ions doped B2O3-P2O5-Li2O glasses	UGC	Completed	3,30,000/-	2017

Consultancy contribution

S.No.	Year	Amount	Details
1			

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed:	Ongoing:
2	PG	Completed: 6	Ongoing:-
3	PhD	Completed: 1	Ongoing: 1

Administrative experience

S.No.	Role	Duration (From – to)
1	Member of College Academic Council	2017-2020
2	Convenor of Internal Complaints Committee.	2014 to 2020
3	Member of College Academic Council	2018 to 2021
3	Member of Women's Empowerment Cell.	2019 to 2023
4	Stock verification officer	2019 to 2023
5	Research Coordinator from Dept. of Physics	2018 to 2023
6	Class coordinator for 1st B.Tech. and M.Sc.	2010 onwards

	courses	
7	Worked as a member of Anti Ragging Committee	2017-2020
8	Member of Enquiry Committee of Bapatla Engineering College	2021
9	Worked as Squad member for External Examination.	2010 to 2020
10	Member of Academic Audit	2020-2022
11.	Member of Criteria 7 of NAAC	2022-2023

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?user=BDH4QpkAAAAJ&hl=en
SCOPUS	6603592986
Web of Science	
Vidwan ID	324370

Any other relevant information

Dr.V.Aruna
(Name)
(Date)