FACULTY PROFILE

Name of the Faculty:	**Dr.V.Aruna**	
Designation:	**Associate Professor & HOD**	
Department:	**Physics**	
Dateof Birth:	**31.05.1969**	
AICTE– ID:	**1-430280991**	

Education	• 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	**1.** Engineering Physics **2.** Advanced Optics and Material Testing **3.** Semiconductor Physics and Nanomaterials **4.** Waves and Modern Physics

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 degradation of tetracycline under visible light	Environmental Research	2023	220	115191.	**Scopus**
2	Ascendancy of Cr2O3 on morphology, spectroscopic and	Materials Chemistry and	2023	304	127889	**Scopus**

	dielectric Properties of GeO_2-Li_2O-P_2O_5-MgO glasses.	Physics				
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_2O_3-Cao-P_2O_5-B_2O_3 glasses	Materials Chemistry and Physics	2022	290	126584	**Scopus**
5	Electrical and spectroscopic characteristics of B_2O_3-Bi_2O_3-Al_2O_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_2O-SrO-B_2O_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_2O_3-Bi_2O_3-Al_2O_3-MgO glasses	Journal of Non-Crystalline Solids.	2021	564	120844	**Scopus**
9	Influence of chromium ions on photonic applicability ofNa_2O-Bi_2O_3-B_2O_3-SiO_2glass 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 Li2O-B2O3-P2O5 glasses	J. Non Crystalline Solids.	2020	536	120015	**Scopus**
11	Effect of Cr_2O_3 on the structural, optical and dielectric studies of LiF-SrO-B_2O_3 glasses.	J.Non Crystalline Solids	2019	520	119428	**Scopus**
12	Electron Paramagnetic Resonance and Optical absorption studies of Chromium ions doped	Pramana Research Journal	2018	8	215	**Google scholar**

	borophosphate glasses					
13	Spectroscopic Investigations of Li_2O-B_2O_3-P_2O_5 Glass system doped with V_2O_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_2O_3-P_2O_5-TeO_2 – Li_2SO_4 glass	Ind. J. Pure & Appl. Phys.	2003	41	206	**Scopus**
16	Emission properties of Er^{3+} : B_2O_3-P_2O_5-TeO_2 –Li_2SO_4 glass	Phys. Chem. glasses	2002	43	313	**Scopus**
17	Absorption and photoluminescence spectra of Sm^{3+} : B_2O_3-P_2O_5-TeO_2 –Li_2O glass	Mater . Res. Bull	2000	35	703	**Scopus**
18	Spectra of Pr^{3+}& Ho^{3+}: B_2O_3-P_2O_5-R_2SO_4 glasses	Phys. Chem. Glasses	1998	39	323	**Scopus**
19	Spectral properties of Tb^{3+} : B_2O_3-P_2O_5-R_2SO_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_2O_3-P_2O_5-R_2SO_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_2O_3-P_2O_5-R_2SO_4 glasses	Mater. Lett.	1997	33	201	**Scopus**
24	Physical properties of (100-X)B_2O_3 + LiF Optical glasses	Ferro electric Lett.	1996	22	15	**Scopus**

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 INSTITUE 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	Inculating 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	Member,BOS,Freshman Engineering Dept.	NRI Institute of Technology	2022-23
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**	**UGC**	**Completed**	**3,30,000/-**	**2017**

	B2O3-P2O5-Li2O glasses				

Student Project/research guidance

S.No	Level	Total number
1	**Research Guide - 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.	2010 onwards
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

Dr.V.Aruna

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