

Profile of Dr. V. Aruna

Name: Dr. V. Aruna

Designation: Associate Professor

Department of Physics,

Bapatla Engineering College, Bapatla.

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SUMMARY:

- Ph. D. in Physics from S.V. University, Tirupati
- Total Experience of 23 years in Teaching.
- Published 14 articles in Journals.
- Guided (3 Ph.Ds registered and 2 M. Phils completed)
- Taught various subjects in the areas of 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 Nano materials, Computational Methods and Programming

EDUCATIONAL QUALIFICATIONS:

- Doctor of Philosophy ,Ph. D in Glass Science from S.V. University, Tirupathi in 1999.
- M. Sc. (Tech.) Engineering Physics from S.V.U. Engineering College, Tirupathi in 1992.
- B. Sc. (M.P.E.) (Maths, Physics, Electronics) from S.P.W. College, Tirupathi in 1989.
- Intermediate (M.P.C.) from S.P.W. College, Tirupathi in 1986

EXPERIENCE:

- September, 2001 to till date
Associate Professor, Bapatla Engineering College, Bapatla
- 2000-2001
Junior lecturer, Govt. Jr. College, Chandragiri, Tirupati
- 1992-1996
Junior lecturer, Sri Vidyodaya Jr. College, Tirupati

ADMINISTRATIVE EXPERIENCE:

- .Member of College Academic Council
- Member of Stock verification committee
- Representative of Research Committee from Dept. of Physics
- Class coordinator for 1st B. Tech. and M.Sc. courses

- Worked as a member of Anti Ragging Committee.
- Member of Enquiry Committee of Bapatla Engineering College.
- Worked as Squad member for External Examination.

SHORT TERM COURSES ORGANIZED / LECTURES DELIVERED:

- Nil

SUBJECTS TAUGHT at UG and PG LEVEL:

- Engineering Physics, Advanced Optics and Material Testing, Semiconductor Physics and Nano materials, Mathematical Physics, Atomic and Molecular physics, Quantum Mechanics-I, Quantum Mechanics-II, Advanced Quantum Mechanics, Resonance Spectroscopy, Computational Methods and Programming

HONOURS:

- Member, P.G.Board of Studies of physics of Acharya Nagarjuna University .
- One UGC Minor Project worth Rs.3,35,000/- was completed.

RESEARCH AND CONSULTANCY EXPERIENCE:

- Guideship under Acharya Nagarjuna University.
- Three Ph. D. students were registered.
- Two students got their M. Phil. degrees.

FDPS / WORKSHOPS / SEMINARS / ORIENTATION PROGRAMS ATTENDED:

- One day work shop on "Material Characterization Techniques" held on 18th April 2019 at KL University .
- Two day workshop on "Intellectual Property and Innovation Management" held from 31st August-1st September 2108 at Bapatla Engineering College.
- A National seminar on "Physics and Chemistry of Non Crystalline Materials", held from 1st -2nd December 2017 at K.V.R College, Nandigama
- A Two day National Seminar on "Recent Research Developments in Higher Education", (RRDH- 2016) held from 6-7th December 2016 at A.C. College, Guntur
- A Two day National seminar on "Nanotechnology in chemical allied industries" (NTCAI-2014) from 7- 8th March 2014 at Bapatla Engineering College, Bapatla

AREAS OF RESEARCH INTEREST:

- Material science, Nano materials.

PUBLICATIONS:

Articles in Journals:

1. Effect of Cr_2O_3 on the structural, optical and dielectric studies of $\text{LiF-SrO-B}_2\text{O}_3$ glasses. J. Non Crystalline Solids 520(2019)119428, Co-authors: A.Ramesh Babu, S.Yusub, M. Vinaya Teja, P. Srinivasa Rao, D. Krishna Rao.

2. Electron Paramagnetic Resonance and Optical absorption studies of Chromium ions doped borophosphate glasses.
Pramana Research Journal 8 (2018) 215. Co-authors: M. Venkateswarlu, A. Ramesh Babu, MVVK Srinivas Prasad, KLSV Prasad, S.H. Nandyala.
3. Spectroscopic Investigations of $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-\text{P}_2\text{O}_5$ Glass system doped with V_2O_5
J. Applied science and Computations 5 (2018) 423 Co-authors: A. Ramesh, V.V. Hari Babu
4. “EPR, Optical Absorption and FTIR Properties of Cobalt Doped Lithium Borophosphate Glass System” ,
IJSRST3, 7 (2017) 744-748, Co-authors: Ch. Anjaneyulu, D. Syamala Devi, M. Veeraiah.
5. Fluorescence properties of $\text{Nd}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{TeO}_2-\text{Li}_2\text{SO}_4$ glass
Ind. J. Pure & Appl. Phys. 41 (2003) 206 Co-authors: N. Sooraj Hussain & N.V.V. Prasad
6. Emission properties of $\text{Er}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{TeO}_2-\text{Li}_2\text{SO}_4$ glass
Phys. Chem. glasses 43 (2002) 313 Co-authors: N.V.V. Prasad & S. Budhudu
7. Absorption and photoluminescence spectra of $\text{Sm}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{TeO}_2-\text{Li}_2\text{O}$ glass
Mater . Res. Bull 35 (2000) 703. Co-authors: N. Sooraj Hussain & S. Budhudu
8. Spectra of Pr^{3+} & $\text{Ho}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{R}_2\text{SO}_4$ glasses
Phys. Chem. Glasses 39 (1998) 323.Co-authors: S. Budhudu
9. Spectral properties of $\text{Tb}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{R}_2\text{SO}_4$ glasses
Mater Lett.. 36 (1998) 24. Co-authors: S. Budhudu
10. Photoluminescence spectra of $\text{LaOBr} : \text{Eu}^{3+}$ powder phosphors
Mater. Chem.. Phys. 52 (1998) 157. Co-authors: K. Raja Mohan Reddy, T. Balaji, K. Annapurna & S. Budhudu.
11. Spectra of Sm^{3+} & $\text{Dy}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{R}_2\text{SO}_4$ glasses
Mater Res. Bull 33 (1998) 149 . Co-authors: N. Sooraj Hussain & S. Budhudu
12. Spectral properties of Pr^{3+} & Nd^{3+} - doped lithium borate glass
Physical Chemistry of glasses 38 (1997) 238.Co-authors: K. Thyagarajan, N. Sooraj Hussain, K. Raja Mohan Reddy, K. Annapurna & S. Budhudu
13. Spectral properties of $\text{Eu}^{3+} : \text{B}_2\text{O}_3-\text{P}_2\text{O}_5-\text{R}_2\text{SO}_4$ glasses
Mater. Lett. 33 (1997) 201Co- authors: N. Sooraj Hussain, K. Raja Mohan Reddy, K. Annapurna & S. Budhudu
14. Physical properties of $(100-\text{X})\text{B}_2\text{O}_3 + \text{LiF}$ Optical glasses
Ferro electric Lett. 22 (1996) 15.Co-authors: K. Thyagarajan, V. Madhusudhana Rao, R. Gopala Krishnan & S. Budhudu