FACULTYPROFILE

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| Name of the Faculty: | | | **Dr.V.Aruna** | | | | C:\Users\Aruna madem\Downloads\New Doc 2019-06-15 09.27.08.jpg |
| 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 |
| **ResearchSpecialization** | | | | **Glass science/Material science** | | | |
| **Courses taught** | | 1. Engineering Physics 2. Mathematical physics, 3. Quantum Mechanics I, 4. Quantum mechanics II, 5. Advanced Quantum Mechanics, 6. Atomic and Molecular Physics, 7. Resonance Spectroscopy, 8. Advanced Optics and Material Testing, 9. Semiconductor Physics and Nanomaterials, 10. 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 InVO4/SnWO4 heterostructured Photocatalyst for efficient photocatalytic degradation of tetracycline under visible light | Environmental Research | 2023 | 220 | 115191. | **E Scopus** | | **2** | Ascendancy of Cr2O3 on morphology, spectroscopic and dielectric Properties of GeO2-Li2O-P2O5-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 | **S Scopus &**  **WOS** | | **4** | Impact of copper ions on Physical, Structural ,Spectroscopic and dielectric properties of Bi2O3-Cao-P2O5-B2O3 glasses | Materials Chemistry and Physics | 2022 | 290 | 126584 | **Scopus** | | **5** | Electrical and spectroscopic characteristics of B2O3-Bi2O3-Al2O3-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 Cu2+ ions on the ionic, electronic conductivity and optical characteristics of Li2O-SrO-B2O3 system | Journal of Non-Crystalline Solids | 2022 | 575 | 1210 | **Scopus** | | **8** | The eminence of copper ions on optical, electrical properties and morphology of B2O3-Bi2O3-Al2O3-MgO glasses | Journal of Non-Crystalline Solids. | 2021 | 564 | 120844 | **Scopus** | | **9** | Influence of chromium ions on photonic applicability ofNa2O-Bi2O3-B2O3-SiO2glass 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 Cr2O3 on the structural, optical and dielectric studies of LiF-SrO-B2O3 glasses. | J.Non Crystalline Solids | 2019 | 520 | 119428 | **Scopus** | | **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 Li2O-B2O3-P2O5 Glass system doped with V2O5 | 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 Nd3+ : B2O3-P2O5-TeO2 –Li2SO4 glass | Ind. J. Pure & Appl. Phys. | 2003 | 41 | 206 | **Scopus** | | **16** | Emission properties of Er3+ : B2O3-P2O5-TeO2 –Li2SO4 glass | Phys. Chem. glasses | 2002 | 43 | 313 | **Scopus** | | **17** | Absorption and photoluminescence spectra of Sm3+ : B2O3-P2O5-TeO2 –Li2O glass | Mater . Res. Bull | 2000 | 35 | 703 | **Scopus** | | **18** | Spectra of Pr3+& Ho3+: B2O3-P2O5-R2SO4 glasses | Phys. Chem. Glasses | 1998 | 39 | 323 | **Scopus** | | **19** | Spectral properties of Tb3+ : B2O3-P2O5-R2SO4 glasses | Mater Lett.. | 1998 | 36 | 24 | **Scopus** | | **20** | Photoluminescence spectra of LaOBr: Eu3+powder phosphors | Mater. Chem.. Phys. | 1998 | 52 | 157 | **Scopus** | | **21** | Spectra of Sm3+& Dy3+ : B2O3-P2O5-R2SO4 glasses | Mater Res. Bull | 1998 | 33 | 149 | **Scopus** | | **22** | Spectral properties of Pr3+& Nd3+ - doped lithium borate glass | Phys. Chem. glasses | 1997 | 38 | 238 | **Scopus** | | **23** | Spectral properties of Eu3+ : B2O3-P2O5-R2SO4 glasses | Mater. Lett. | 1997 | 33 | 201 | **Scopus** | | **24** | Physical properties of (100-X)B2O3 + LiF Optical glasses | Ferro electric Lett. | 1996 | 22 | 15 | **Scopus** | | | | | | | | |
| **Bookspublished**   |  |  |  |  | | --- | --- | --- | --- | | **S. No.** | **Title of the book** | **Publisher** | **year** | | **1** |  |  |  |   **Book chaptersPublished**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **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 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 | 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. courses | 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 |   Any other relevant information  Dr.V.Aruna  (Name)  (Date) | | | | | | | |