**FACULTY PROFILE**

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| Name of the Faculty: | | | Dr. A. Ramesh Babu | | | | photo (3) |
| Designation: | | | Assistant Professor | | | |
| Department: | | | Physics | | | |
| Date of Birth: | | | 01-06-1975 | | | |
| AICTE – ID: | 1-1515271950 | | | | | |
| **Education** | * 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: \_\_**20years**\_\_Years** | |
| Research: \_5\_\_\_Years | | | | Others: \_\_\_\_Years |
| **Research Specialization** | | | | Glass science and Material science | | | |
| **Courses taught** | | **1.1/4**B.Tech-Semiconductor physics and Nano Materials  **2.1/4**B.Tech-Advanced optics and Material testing  **3. 4/4**B.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 Cr2O3 on morphology, spectroscopic and dielectric properties of GeO2–Li2O–P2O5–MgO glasses | Materials Chemistry and Physics | 2023 | 304 | 127889 | SCOPUS | | **2** | Electrical and spectroscopic characteristics of B2O3–Bi2O3–Al2O3–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 Bi2O3–CaO–P2O5–B2O3 glasses | Materials Chemistry and Physics. | 2022 | 290 | 126584 | SCOPUS | | **4.** | The influence of Cu2+ ions on the ionic, electronic conductivity and optical characteristics of Li2O-SrO-B2O3 system | Journal of Non CrystallineSolids. | 2022 | 575 | 121210 | SCOPUS | | **5** | The eminence of copper ions on optical, electrical properties and morphology of B2O3-Bi2O3-Al2O3-MgO glasses | Journal of Non CrystallineSolids | 2021 | 564 | 120844 | SCOPUS | | **6** | Efficacy of copper ions on lithium ion conductivity, electron hopping,optical band gap, metallization criterion and morphology of Li2O-B2O3-P2O5 glasses | Journal of Non CrystallineSolids | 2020 | 536 | 120015 | SCOPUS | | **7** | Ascendancy of iron ions on lithium ion conductivity, optical band gap, Urbach energy and topology of LiF-SrO-B2O3 glasses | Journal of Non CrystallineSolids | 2020 | 533 | 119906 | SCOPUS | | **8** | Effect of Cr2O3 on the structural, optical and dielectric studies of LiF-SrO-B2O3 glasses | Journal of Non CrystallineSolids | 2019 | 520 | 119428 | SCOPUS | | **9** | Spectroscopic investigations of LiF-SrO-B2O3 glass system doped with V2O5 | Journal of Applied Science and computations | 2018 | 5 | 1076-5131 | Google Scholar | | **10** | Electron Paramagnetic Resonance and Optical absorption studies of Chromium ions doped borophosphate glasses | Pramana research journal | 2018 | 8 |  | Google Scholar | | **11** | Influence of alkaline earth oxides on (R=Ba, Ca, Sr) on sectroscopic and dielectric  properties of iron doped RO-Na2O-B2O3glasses | Journal of Non CrystallineSolids | 2013 | 364 | 62-68 | SCOPUS | | **12** | Influence of molybdenum ions on spectroscopic and dielectric properties of ZnF2-Bi2O3-P2O5: MoO3 glass ceramics | Journal of Non CrystallineSolids | 2012 | 358 | 3372-3381 | SCOPUS | | **13** | Structural changes in ZnF2-Bi2O3-GeO2 glass system doped with Fe2O3 by spectroscopic and dielectric investigations | Journal of Physics and chemistry of Solids | 2013 | 74 | 963-970 | SCOPUS | | **14** | Structural impact of cobalt ions on BaO-Bi2O3-B2O3 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 BaBiBO4 glasses: Spectroscopic and dielectric  investigations | Journal of Non CrystallineSolids | 2012 | 358 | 2597-2605 | SCOPUS | | **16.** | Structural and electrical properties of ZnF2-Bi2O3-GeO2 glass doped with CoO | Journal of Molecular Structure | 2012 | 1014 | 119-125 | SCOPUS | | **17** | Effect of Bi2O3 proportion on physical, structural and electrical properties of  zinc bismuth phosphate glasses | Journal of Non CrystallineSolids | 2011 | 357 | 3585-3591 | SCOPUS | | **18** | Spectroscopic properties and dielectric dispersion of K2O-BaO-B2O3 glasses  doped with Fe2O3 | Indian Journal of Pure& Applied  Physics | 2011. | 49 |  | SCOPUS | | **19** | Influence of molybdenum ions on the structure of ZnO-As2O3-Sb2O3 glass system by means of spectroscopic and dielectric studies | Journal of Non CrystallineSolids | 2010 | 356 | 1754-1761. | SCOPUS | | **20** | Dielectric dispersion and spectroscopic properties of NaF-SrO-B2O3 glasses doped with V2O5 | IOP Conf.Series:Materials Science and Engineering. | 2009 | 2 | 012021. | SCOPUS | | **21** | Vanadyl ions influence on Spectroscopic and dielectric properties of *LiF-SrO-B2O3* glass network | Journal of Molecular Structure | 2011 | 1005 | 83-90 | SCOPUS | | **22** | Influence of manganese ions on spectroscopic and dielectric properties of LiF- SrO-B2O3 glasses | Journal of Non CrystallineSolids | 2012 | 358 | 1391-1398 | 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/Workshops Organized   |  |  |  |  | | --- | --- | --- | --- | | 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 | National Seminar on Advanced Functional Device Materials (NCAFDM 2023) | Department of Physics, University college of sciences, Acharya Nagarjuna University | 27th and 28th February,2023 | | 2 | International Conference on Emerging Trends in Science and Technology-2022) | Department of Humanities and Sciences, PACE institute of Technology and Sciences | 1st and 3rd December,2022 | | 3 | Basic research and Analysis in NanoScience” (BRAIN-2021) | Department of Nanotechnology, Acharya Nagarjuna University | 18th and 19st March,2021 | | 4 | Recent Trends in Nanoscience and Nanotechnology”(NSRTN-2020) | Department of Nanotechnology, Acharya Nagarjuna University | 30th and 31st January,2020 | | 5 | National seminar on Emerging Trends and Advances in Multi Functional Materials(NSETAFM-2019) | Department of Physics, Acharya Nagarjuna University | 10th and 11th December,2019. | | 6 | Physics and Chemistry of Non-Chrystalline Materials’ | Kakani Venkata Ratnam College , Nandigama. | December 1st&2nd, 2017 | | 7 | Recent Research Developments in Higher Education (RRDH-2016) | Internal Quality Assurance Cell, Andhra Christian College, Guntur. | December 6th&7th, 2016 | | 8 | Trends and Applications of Liquid Crystals (NSLC-2015) | Andhra Christian College, Guntur. | 10th and 11st September, 2015 | | 9 | Emerging Trends in Physics Teaching and Training (ETPTT-2015) | S.V.R.M. College, Nagaram | 7th and 8st 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 | 27th and 28th January 2012 | | 12 | Novel Materials for Display Applications’ | SVRM college, Nagaram | 28-29th 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 | 30th and 31st 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 | 5/9/22to9/9/2022 | | 17 | International conference on Advances in chemical engineering | IICHE,Bengolore, HIT Colcotta | April 14-16,2022 | | 18 | Quality improvement via Accrediation and Ranking | IQAC-BEC,Bapatla | 28th-29th June,2021 | | 19 | Inculating Universal Human values in Technical Education | AICTE, New Delhi | 5-9th, October,2020 |   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 | | 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 |   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 7 Ongoing:01 | | 3 | PhD | Completed: Ongoing: |   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 | | SCOPUS | 0000-0002-7114-4998 | | Web of Science |  | | Vidwan ID | 324233 |   Any other relevant information  Dr.A.Ramesh Babu  (Name)  13/09/2023 (Date) | | | | | | | |