FACULTY PROFILE

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| Name of the Faculty: | | | **Dr. M.V. SAMBASIVA RAO** | | | | E:\mvsr\MVSR.jpg |
| Designation: | | | **Assistant Professor** | | | |
| Department: | | | **Physics** | | | |
| Date of Birth: | | | **05/07/1980** | | | |
| AICTE – ID: | **1-430173346** | | | | | |
| **Education** | * B.Sc. **M.P.C** group from **ANU** in 2001 * B.Ed. Physical Science from ANU IN 2006 * M.Sc. in **Pure Physics** Specialization from **Andhra** University in 2003 * Ph.D. in **Glass science** specialization from **ANU** in 2018 | | | | | | |
| **Experience** | Teaching:  **20** Years | | | | Industry: \_\_\_\_Years | **Total: 27 Years** | |
| Research: **7** Years | | | | Others: \_\_\_\_Years |
| **Research Specialization** | | | | **Glass science & Ceramics** | | | |
| **Courses taught** | | **1.B.Sc. Physics papers Vol. I,II,III and IV**  **2. Engineering Physics, Waves and Modern Physics, Advanced Optics and Matereial Testing & Semiconductor Physics and Nano materials**  **3.Classical Mechanics**  **4.Statistical Mechanics**  **5.Solid state Physics** | | | | | |
| **Research contributions** | | | | | | | |
| **International/national peer reviewed journals**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **S. No.** | **Title of paper** | **Journal** | **Year** | **Volume** | **pages** | **Indexing (SCI/WoS/ SCOPUS, Google scholar)** | | **1** | Influence of chromium ions on photonic applicability of Na2O-Bi2O3 -B2O3 -SiO2 glass system | ***Optics Communications*** | ***(2021)*** | ***480*** | ***126496*** | **SSCOPUS** | | **2** | ***Dielectric andspectroscopic investigations on zinc arsenate glasses with Bi2O3 as additive*** | ***Materials Today: Proceedings;*** | ***(2019)*** | ***19*** | ***2639-2644*** | **SSCOPUS** | | **3** | **"Physical and spectroscopic properties of multi-component Na2O–PbO–Bi2O3–SiO2 glass ceramics with Cr2O3 as nucleating agent”** | ***Optical Materials,*** | ***(2015)* (Elsevier),** | ***47*** | ***315–322***. | **Scopus** | | **4** | Spectroscopic features of copper ions in multi-component Na2O-PbO-Bi2O3-SiO2 glass ceramics” | *Journal of Molecular Structure* | *(2016)* (Elsevier); | *1125* | *624-632*. | Scopus | | **5** | Assessment of role of iron ions on the physical and spectroscopic properties  of multi-component Na2O−PbO−Bi2O3−SiO2 glass ceramics | *Phase Transitions* | *(2018) (Taylor & Francis);* | *91(1)* | *92-107* | Scopus | | **6** | Role of valence state of vanadium ions on structural and spectroscopic properties of  sodium lead bismuth silicate glass ceramics. | AIP Conference Proceedings | (2018); | 1942, | 070016 | Scopus | | **7** | Characterization, optical and luminescence features of cobalt ions in multi-component PbO-Al2O3-TeO2-GeO2-SiO2 glass ceramics | *Optical Materials* | *(2019)* | *88* | *289-298* | Scopus | | **8** | Influence of valence state of copper ions on structural and spectroscopic properties of multi-component PbO-Al2O3-TeO2-GeO2-SiO2 glass ceramic system- a possible material for memory switching devices | *Optical Materials* | *(2017)* | *73* | *7-15* | Scopus | | **9** | Microstructure and spectroscopic investigations of calcium zinc bismuth phosphate glass ceramics doped with manganese ions | *Indian Joural of Physics* | *(2018)* | 92(1): | 97–109 | Scopus | | **10** | Optical absorption and luminescence properties of Pr3+ ions doped P2O5-PbO Bi2O3-R2O3 (R= Al, Ga, In) glasses | *Journal of Non-Crystalline Solids* | (2017) | 471 | 476–482 | Scopus | | **11** | Investigation of luminescence and laser transition of Dy3+ ion in P2O5-PbO- Bi2O3-R2O3 (R= Al, Ga, In) glasses | *Optical Materials* | *(2017)* | *66* | *189-196* | Scopus | | **12** | Asssement of structural state of vanadium ions in calcium bismuth borophosphate glass ceramics by means of spectroscopic investigations | Physics and Chemistry of Glasses: *European Journal of Glass Science and Technology Part B,* | *(2017)* | *58(2)* | *49-58* | Scopus | | **13** | Physical and spectroscopic features of cobalt ions in multi-component CaF2-ZnO-Bi2O3-P2O5 glass ceramics | *Journal of Alloys and Compounds;* | *(2017)* | *699* | *392-400* | Scopus | | **14** | Role of nickel ion coordination on spectroscopic properties of multi-component CaF2–Bi2O3–P2O5–B2O3 glass- ceramics | *Optical materials;* | *(2016)* | *60* | *67-73* | Scopus | | **15** | Spectroscopic and dielectric investigations on the role of molybdenum ions in lead niobium germanosilicate glasses | *Journal of Non-Crystalline Solids* | (2016) | 442 | 44–55 | Scopus | | **16** | Role of titanium ions on the physical and structural properties of calcium Zinc bismuth phosphate glass ceramics | *Journal of Non-Crystalline Solids* | (2016) | 434 | 62-70 | Scopus | | **17** | Structural investigations of lead germonosilicate glasses doped with Nb2O5 by means of spectroscopic and dielectric studies | *Journal of Molecular Structure*, | *(2015)* | *1098* | *181-190* | Scopus | | **18** | Characterization and spectroscopic studies of multi-component calcium zinc bismuth phosphate glass ceramics doped with iron ions | *AIP Conference Proceedings* | (2018) | 1942, | 070014 | Scopus | | **19** | Influence of valence state of vanadium ions on structural and spectroscopic features of  multi-component PbO–Al2O3–TeO2–GeO2–SiO2 glass ceramics | *AIP Conference Proceedings* | (2019) | 2115, | 030231 | Scopus | | **20** | Structural and spectroscopic investigations of multi–component P2O5─PbO ─Ga2O3─Dy2O3─Bi2O3 glass system: An insight to the energy transfer between Bi3+ and Dy3+ ions | *AIP Conference Proceedings* | (2019) | 2115, | 030229 | 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 | AICTE Recognized Faculty Development Programme on “Preparing Students for the Placements - Resume, GD and Interview | Education and Educational Management Department  At Bapatla College of Pharmacy, Bapatla, Andhra Pradesh | 17/07/2023 to 21/07/2023 (One Week) | | 2 | AICTE Recognized Faculty Development Programme “Outcome Based Curriculum Design” | Curriculum Development Centre Department at Bapatla College of Pharmacy, Bapatla, Guntur, A.P. | 05/09/2022 to 09/09/2022 (One Week) | | 3 | National conference on“Recent Advances in Functional Materials”  (NCRFM-2023) | Physics Department, Vignan’s Foundation science,Technology and Research, Guntur | 24th& 25th March-2023, | | 4 | National seminar on Basic Research and Nanoscience (BRAIN-2021) | Dept. of Nanotechnology, ANU | on 30th& 31st Jan2020 | | 5 | UGC sponsored national on Recent Trends in Nano science & Nanotechnology (NSRTN-2020) on | Dept. of Nanotechnology, ANU | 30th& 31st Jan2020. | | 6 | National Conference on Functionality of Advanced Materials (NCFAM- 2019) | Organized by Dept. of Physics, Vignan university | 24th &25 June 2019 | | 7 | A one day International seminar on Emerging Trends in Chemistry and it"s Allied Sciences | Dept. OF Chemistry,BCAS and Royal society of Chemistry (lONDON,UK) LOCAL SECTION Decan, India | 23rd December,2019 | | 8 | A national seminar on Emerging Trends and Advances in Multifunctional  Materials (NSETAFM-2019) | Dept. of Physics, ANU | 10th &n 11th Dec 2019 | | 9 | 63rd DAE Solid State Physics Symposium | BARC, Mumbai, at GJUST, Hissar, Haryana | Dec 18-22, 2018 | | 10 | 62nd DAE Solid State Physics Symposium | BARC at Mumbai | Dec 26-30, 2017 | | 11 | UGC sponsored National Seminar on Resent Research Developments in Higher Education (RRDH- 2016) | Andhra Christian College, Guntur | 6th & 7th, December, 2016 | | 12 | UGC sponsored National Seminar on Optoelectronic Device Mterials (NSODM-2015) | Dept. of Physics at Bapatla college of Arts & Sciences, Bapatla | 20th June 2015 | | 13 | UGC, DRDO & APSCHE sponsored national seminar on Advances in Material Science (NSAMS-15). | Dept. of Electronics & Instrumentation Technology, ANU, Guntur | 25th and 26th November-2015 | | 14 | Paper presented in UGC, DST & APSCHE sponsored international seminar on Glasses and other Functional Materials (isgfm-2015) | Dept. of Physics, ANU, Guntur. | 11-13th December-2014 | | 15 | Paper presented in AICTE sponsored national conference on Nanotechnology in Chemical and Allied Industries (NTCAI-2014) | Dept. of Chemical Engineerng at Bapatla Engineering College | conducted and 8th March 2014 | | 16 | UGC sponsored National Seminar on Solar Energy Harvesting Through Photovoltaic Cells And Storage (SEHTPVAS-2013) | Dept. of Physics and Chemical engineering at R.V.R. & J.C. College of Engineering, Guntur. | 21-22 June, 2013 | | 17 | Faculty Development Program on Applications of Nano Technology | Dept. of Chemistry and Mechanical engineering at V.R. Siddhartha Engineering College, Vijayawada | 21st April 2014 | | 18 | UGC, CSIR, BRNS, DBT, AERB, DRDO sponsored National Seminar on Advances in Amorphous Materials (NAAM-2007) | Dept. of Physics, Acharya Nagarjuna University P.G. Centre, Nuzvid, A.P. | 1-3, February, 2007 | | 19 | National Seminar on Emerging Trends in Physics Education And Experimental Physics (NSPE-2016) | Physics, V.S.R & N.VR College, Tenali, A.P. | 27th & 28th October, 2006 organized by Dept. of |   Awards/recognitions/achievements   |  |  |  |  | | --- | --- | --- | --- | | S.No. | Name of the Award | Awarding body/Society/Organization | Year | | 1 |  |  |  |   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: 7 Ongoing:- | | 3 | PhD | Completed: - Ongoing:- |   Administrative experience   |  |  |  | | --- | --- | --- | | S.No. | Role | Duration (From – to) | | 1 | I.B.Tech. MECH-B students class Coordinator & Mentor  I.B.Tech. ECEA students class Coordinator  I.B.Tech. ECEA students class Mentor  Bectagon Member  Stack Verification Member  Sports Committee Member  M.Sc. SSP Lab incharge | (2017-2020)  (2022 To till date)  (2022 To till date)  (2009 to till date)  (2009 to till date)  (2015 to till date)  (2015 to till date) |   Research credentials   |  |  | | --- | --- | | Index/database | ID/Link | | Google Scholar | https://scholar.google.com/citations?user=FbXSKd8AAAAJ&hl=en | | SCOPUS | 56667611000 | | Web of Science/ORCID | JED-8701-2023/0000-0002-9534-8215 | | Vidwan ID | 324236 |   Any other relevant information  (Dr. M.V.SAMBASIVA RAO)  14-09-2023 | | | | | | | |