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**

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| --- | --- | --- | --- | --- | --- | --- |
| **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 |

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| **Books published**

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| --- | --- | --- | --- |
| **S. No.** | **Title of the book** | **Publisher** | **year** |
| **1** | **-** | **-** | **-** |

**Book chapters Published**

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| --- | --- | --- | --- | --- |
| **S.No.** | **Title of the Chapter** | **Book title** | **Publisher** | **year** |
| **1** | **-** | **-** | **-** | **-** |

Details of Patents (Filed & Granted)

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| --- | --- | --- | --- | --- |
| S. No. | Applications number | Title of the patent | Date of filing/publishing | Published/granted |
| 1 | - | - | - | - |

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

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| --- | --- | --- | --- |
| S.No. | Name of the event | Role | Dates |
| 1 | - | - | - |

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

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| 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

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| S.No. | Name of the Award | Awarding body/Society/Organization | Year |
| 1 |  |  |  |

Details of project proposals submitted/sanctioned/completed

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| S.No. | Title of the Project | Funding body | Submitted/ Sanctioned/ Completed | Amount | Year/ duration |
|  | - | - | - | - | - |

Consultancy contribution

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| S.No. | Year | Amount | Details |
| 1 | - | - | - |

Student Project/research guidance

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| S.No | Level | Total number |
| 1 | UG | Completed: - Ongoing:- |
| 2 | PG | Completed: 7 Ongoing:- |
| 3 | PhD | Completed: - Ongoing:- |

Administrative experience

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| S.No. | Role | Duration (From – to) |
| 1 | I.B.Tech. MECH-B students class Coordinator & MentorI.B.Tech. ECEA students class Coordinator I.B.Tech. ECEA students class Mentor Bectagon MemberStack Verification Member Sports Committee MemberM.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

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| 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 |