

Name of Faculty Dr. S. SHRAVAN KUMAR REDDY

Designation Assistant Professor

Nature of Job/Appointment Regular

Date of Joining 24 - 07 - 2017

E-mail shravankumar\_physics@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Physics)	Awarded
PG	M. SC (Physics)	First Class
UG	B.Sc. (Physics)	First Class

#### Work Experience

Teaching	05 Years
Research	11 years
Industry	--
Others	--
Area of Specialization	Materials Physics, Magneto-Electric materials, PLD Thin films and <sup>57</sup> Fe Mossbauer Spectroscopy
Professional Memberships	--
Responsibilities held at Institution Level	MEMBER, NATIONAL INSTITUTE FOR TECHNICAL TRAINING & SKILL DEVELOPMENT, No.: NITTSD/PROFESSOR/59951
Responsibilities held at Department Level	1. In-charge, ISO certification 2. Incharge, Department Library
Research Guidance	--
Awards Received	1. Received Best Research Paper Award by Director, UGC DAE CSR, Indore, Madhya Pradesh during December-2016. 2. Qualified in JEST (Joint Entrance Screening Test) with All India Rank:383 3. Qualified in TS-SET (Telangana State Eligibility Test)
Courses Handled at Under Graduate / Post Graduate Level.	1. Engineering Physics 2. Applied Physics 3. Waves, Optics & Introduction to Quantum Mechanics 4. Optics & Semiconductor Physics 5. Electromagnetic Theory & Quantum Mechanics 6. Mechanics & Materials Science 7. History of Science & Technology
No. of Papers Published	National Journals – 00 International Journals – 22 National Conference – 12 International Conference –10
Projects Carried out	--
Patents	--
Technology Transfer	1. Prof. Ch. Gopal Reddy Department of Physics Osmania University, Hyd. 2. Dr. V. Raghavendra Reddy, Scientist-H UGC DAE CSR, Indore, M.P 3. Dr. T. Govardhan Reddy Assistant Professor GGU, Bilaspur, Chattisgarh 4. Dr. Anjali Panchwanee Post-Doc Fellow

Invited Speaker

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No. of Books/Chapter Published with details

Dr. S. Shravan Kumar Reddy, Prof. Ch. Gopal Reddy published a book entitled "Structural, Electrical, Magnetic and  $^{57}\text{Fe}$  Mossbauer study of  $\text{DyFeO}_3$  based Magneto-Electric Materials" in LAMBERT Academic Publishing, Germany in 2017 ISBN:978-613-9-95070-6

Details of Short-Term Training Programs / Faculty Development

1. Details of Short-Term Training Programs / Faculty Development Participated in e-workshop on MÖSSBAUER SPECTROSCOPY AND X-RAY DIFFRACTION TECHNIQUES - 2020 organised by Department of Physics, University P.G. College, Palamuru University, Mahabubnagar, Telangana State on 23rd July, 2020.
2. Participated in webinar on "STATISTICAL ANALYSIS AS AN INTERFACE IN ENGINEERING PROBLEMS" Organised By Chaitanya Bharathi Institute of Engineering and Technology, Hyderabad on 13th July, 2020.
3. Participated the Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th June, 2020 conducted by MHRD's Innovation Cell.
4. Participated in e-workshop on "Materials processing and Technology" during 27th June, 2020, Department of Physics and Chemistry, MGIT, Hyderabad.
5. Participated the Leadership Talk with Mr. Mahesh Babu, CEO, Mahindra Electric Mobility Ltd held on 23rd June, 2020 conducted by MHRD's Innovation Cell.
6. Participated in Online Faculty Development Program on "Advanced Materials for Energy Harvesting, Conversion and Storage" organized by Department of Science and Humanities, MLR Institute of Technology, Hyderabad during 19-23rd June, 2020.
7. Successfully completed Online Quiz Competition on 'Science and Nature Quest' organized by the Department of Basic Sciences, G. Narayanamma Institute of Technology and Science during 22-27th June, 2020 with a score of 95%.
8. Participated in India Webinar on "Industry 4.0: Issues and Challenges" Organised By Budha Institute of Technology, Gorakhpur, U.P during 20th June, 2020.
9. Participated the Leadership Talk with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation) held on 20th June, 2020 conducted by MHRD's Innovation Cell.
10. Participated in One week FDP on "Advanced Materials Research" Organised By Bharath Institute of Engineering and Technology, Hyderabad and Indian Ceramic Society during 15-19th June, 2020.
11. Participated in online workshop on "Social Responsibility and Community Engagement" Organised By Chaitanya Bharathi Institute of Engineering and Technology (CBIT), Hyderabad during 17th June, 2020.
12. Participated the Leadership Talk with Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment) held on 13th June, 2020 conducted by MHRD's Innovation Cell.
13. Participated in Two-day International Virtual FDP on "Innovative Techniques for Effective Teaching Online and Offline" during 12-13th June, 2020, Faculty of English (Department of M&H), MGIT, Hyderabad.
14. Participated in "e-Quiz: General Science" on 11th June, 2020 with a score of 84%, Department of Physics and Chemistry, MGIT, Hyderabad.
15. Successfully completed the course Learning Physics Through Simple Experiments (2nd April to 10th June, 2020) organized by Prof. H. C. Verma (Retd.) Department of Physics, IIT Kanpur, Centre for Continuing Education.
16. Participated the Leadership Talk with Dr. Nilesh N Oak, Expert (Indian Civilization & History) held on 30th May, 2020 conducted by MHRD's Innovation Cell.

17. Participated in One week FDP on “Outcome Based Education and NAAC Accreditation process” Organised by Chaitanya Bharathi Institute of Engineering and Technology, Hyderabad (CBIT), Hyderabad during 28th May-1st June,2020.
18. Participated in “Awareness Program on Outcome Based Education (OBE)” organized by MLR Institute of Technology, Hyderabad during 22nd May,2020.
19. Participated the India First Leadership Talk Webinar with Prof D. P. Singh, Chairman UGC, 9th May, 2020 conducted by MHRD's Innovation Cell.
20. Successfully completed course on Quantum Mechanics (an online non-credit course) authorized by University of Colorado Boulder and offered through Coursera during 2nd May, 2020.

Details of Journal Publications/  
Conferences (National and International)

**International Journal from the year 2017**

1. S. Shravan kumar Reddy, J. Ramesh, M. Sreenath Reddy, , Ch. Gopal Reddy, P. Yadagiri Reddy, P.D.Babu, V.Siruguri, V. Raghavendra Reddy, “Structural, Magnetic, electrical and 57Fe Mossbauer study of La doped polycrystalline magneto-electric DyFeO<sub>3</sub> “ (communicated to Journal of Materials Science, Springer) (2023).
2. Srinivas Pattipaka, Pamu Dobbidi, Pundareekam Goud J, Gyan Prakash Bharti, S. Shravan Kumar Reddy, Raju James K C, Alike Khare “Nonlinear optical properties of Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub> thin films grown by PLD”, Ceramics International 48 (19-PART-B) (2022) 29533-29539.
3. S Shanmukharao Samatham, Saurabh Singh, Akhilesh Kumar Patel, S. Shravan Kumar Reddy, Tsunehiro Takeuchi, K G Suresh “Magnetic behavior of Ru substituted skyrmion metal MnSi”, Journal of Physics: Condensed Matter 34 (2022) 345801 (8pp).
4. M. Manendar, S. Shravan Kumar Reddy, J. Ramesh, M. Sreenath Reddy, M. Manivel Raja, Ch. Gopal Reddy, P. Yadagiri Reddy, V. Raghavendra Reddy “Cation distribution in Ni substituted Ba<sub>0.5</sub>Sr<sub>1.5</sub>Co<sub>2</sub>Fe<sub>12</sub>O<sub>22</sub> Y-type hexagonal ferrites”, Ceramics International 47 (2021) 9591–9596.
5. M. Sumalatha, S. Shravan Kumar Reddy, M. Sreenath Reddy, Suresh Sripada, M. Manivel Raja, Ch. Gopal Reddy, P. Yadagiri Reddy, V. Raghavendra Reddy “ Raman and in-field 57Fe Mossbauer study of cation distribution in indium (In) substituted phase pure cobalt ferrite (CoFe<sub>2</sub>- xInxO<sub>4</sub>)” Journal of Magnetism and Magnetic Materials 523 (2021) 167561.
6. G. Padmasree, S. Shravan Kumar Reddy, N. Pavan Kumar, P. Yadagiri Reddy, and Ch. Gopal Reddy “Structural and magnetic properties of Y<sub>1-x</sub>DyxFeO<sub>3</sub> multiferroics” Materials Today: Proceedings 46 (2021) 2201–2204.
7. G. Padmasree, S. Shravan Kumar Reddy, N. Pavan Kumar, P. Yadagiri Reddy, and Ch. Gopal Reddy “Magnetization studies of Mn doped YFeO<sub>3</sub> multiferroics” AIP Conference Proceedings 2352, 020018 (2021).
8. J. Ramesh, S. Shravan Kumar Reddy, G. Padmasree, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, and V. Raghavendra Reddy “The characterization of Nd doped BiFeO<sub>3</sub> multiferroic polycrystalline materials”, AIP Conference Proceedings 2269, 030056 (2020).
9. M. Sumalatha, S. Shravan kumar Reddy, M. Sreenath Reddy, Suresh Sripada M. Manivel Raja, Ch Gopal Reddy, P. Yadagiri Reddy, V. Raghavendra Reddy, “Raman and in-field 57Fe Mossbauer study of cation distribution in Ga substituted cobalt ferrite (CoFe<sub>2</sub>-xGaxO<sub>4</sub>)” Journal of Alloys and Compounds 837 (2020) 155478.
10. M. Sumalatha, S. Shravan Kumar Reddy, M. Sreenath Reddy, Suresh Sripada, P. Venkat Reddy, Gopal Reddy Ch, P. Yadagiri Reddy, and V. Raghavendra Reddy “Effect of indium substitution on structural and hyperfine parameters of CoFe<sub>2</sub>O<sub>4</sub>, AIP Conference Proceedings 2220, 110038 (2020).
11. Anjali Panchwanee, Irene Schiesaro, Settimio Mobilio, S. Shravan Kumar Reddy, Carlo Meneghini, Edmund Welter and V.Raghavendra Reddy, “An evidence of local structural disorder across spin-reorientation transition in DyFeO<sub>3</sub> : An Extended X-ray Absorption Fine structure (EXAFS) study”, J. Phys.: Condens. Matter 31 (2019) 345403
12. S. Charvani, S. Shravan Kumar Reddy, G. Narendar, Ch. Gopal Reddy, “Preparation characterisation of alumina nanocomposites”, Materials today: proceedings 5(13):26817-26822 (2018).

13. J. Ramesh, S. Shravan Kumar Reddy, N. Raju, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. Raghavendra Reddy "The Electrical, Magnetic and  $^{57}\text{Fe}$  Mössbauer studies of Al doped  $\text{PrFeO}_3$  polycrystalline materials" *Ceramics International* (2018) 19314-19318.
14. S. Shravan Kumar Reddy, N. Raju, J. Ramesh, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy and V. Raghavendra Reddy "Effect of sintering temperature on leakage current study of polycrystalline multiferroic  $\text{DyFeO}_3$  system", *Ferroelectrics* (Taylor & Francis) 516 (2017) 1-7.
15. S. Shravan Kumar Reddy, N. Raju, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. Raghavendra Reddy, Surya Mohan Gupta, "Study of Mn doped multiferroic  $\text{DyFeO}_3$  ceramics", *Ceramics International* 43 (2017), 6148-6155.
16. J. Ramesh, N. Raju, S. Shravan Kumar Reddy, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. Raghavendra Reddy, " $^{57}\text{Fe}$  Mossbauer study of spin reorientation transition in polycrystalline  $\text{NdFeO}_3$ ", *Journal of Alloys and Compounds* 711 (2017) 300-304.

