

I	Name of Faculty	Dr. S. SHRAVAN KUMAR REDDY
II	Designation	Assistant Professor
III	Nature of Job/Appointment	REGULAR
IV	Date of Joining	24.07.2017
V	E-mail	shravankumar_physics@cbit.ac.in



VI	Education Qualifications	Name of the Degree	Class
	Ph. D	Ph.D (PHYSICS)	----
	PG	M.Sc (PHYSICS)	FIRST DIVISION
	UG	B.Sc (PHYSICS)	FIRST DIVISION WITH DISTINCTION
	Others	JEST	All India Rank:383
		AP-SET	----
		UGC-JRF and SRF	----
VII	Work Experience		
	Teaching	7 years	
	Research	12 years	
	Industry	----	
	Others	----	
VIII	Area of Specialization	1. Materials Physics 2. Condensed Matter Physics 3. Magneto-Electric materials 4. PLD Thinfilms	
IX	Professional Memberships	స్వయం తేజస్వీన్ భవ	
X	Responsibilities held at Institution Level	1979	

XI	Responsibilities held at Department Level	<ol style="list-style-type: none"> 1. In-Charge, ISO certification 2. In-Charge, Department Library.
XII	Research Guidance	<p>XXXX</p> <ol style="list-style-type: none"> 1. Engineering Physics (Theory & Lab) 2. Applied Physics (Theory & Lab) 3. Introd. to Mechanics and Electromagnetic theory (Theory & Lab) 4. Optics and Semiconductor Physics (Theory & Lab) 5. Physics (Theory & Lab) 6. History of Science and Technology (Theory & Lab) 7. Electro Magnetic Theory & Quantum Mechanics
XIII	Courses Handled at Under Graduate / Post Graduate Level.	<p>National Journals–00 International Journals –30</p> <p>National Conference-21 International Conference – 12</p>
XIV	No. of Papers Published	<ol style="list-style-type: none"> 1. Submitted proposals for the sanction of Research Project under CRS (Collaborative Research Scheme) to UGC DAE CSR, Indore, Madhya Pradesh. Project Shortlisted in evaluation and yet to get project sanction orders. 2. Submitted proposal for the sanction grant of SEED grant at R&D center
XV	Projects Carried out	<p>స్వయం తేజస్విన్ భవ</p> <ol style="list-style-type: none"> 1. Dr.V. Raghavendra Reddy, Scientist-H, UGC DAE CSR, Indore, Madhya Pradesh, India. 2. Dr.T. Govardhan Reddy, Associate Professor, Gurughasidas Vishwavidyala, Bilaspur, Chattisgarh, India. 3. Dr. Anjali Panchwatee, Post-Doc Fellow, DESY, Hamburg, Germany.
XVI	Patents	-----
XVII	Technology Transfer	<p>Invited Speaker (Few Important/Prominent)</p> <p>-----</p>
XVIII	No. of Books/Chapter Published with details	<ol style="list-style-type: none"> 1. "Structural, Electrical, Magnetic and ⁵⁷Fe Mossbauer Study of DyFeO₃ based Magneto-Electric Materials" LAMBERT Academic Publishing (978-613-9-95070-6)(2019). 2.

XIX

Details of Short-Term Training Programs/ Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).

1. 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 in 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 in 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, Gorakpur, U.P during 20th June,2020.
9. Participated in 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 an 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 in 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 in 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 in 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.

1. Neha, Goverdhan Reddy Turpu, Pradip Das, Young-Soo Seo, Iqra Rabani, S. Shraavan Kumar Reddy "Ultrafast photodegradation of methylene blue dye and supercapacitor applications of flower like hydrothermal synthesized V₂O₅ nano-structures on rGO as nano – composite", Journal of Physics and Chemistry of Solids 184 (2024) 111673.
2. Ch. Edaiah, S.Shraavan Kumar Reddy, S. Shanmukha Rao Samatham, V. Nagendar, M. Sreentah Reddy, Ch. Gopal Reddy and P. Yadagiri Reddy "Impact of Tb substitution on structural, electrical and magnetic properties of Ho_{1-x}Tb_xFeO₃" (Accepted for publication in Applied Physics A)(2023).
3. Vankudothu Nagendar, N. Raju , S. Shraavan Kumar Reddy , M. Sreenath Reddy, Ch. Gopal Reddy , and P. Yadagiri Reddy, "Impact of Gd⁺³ on structural, electrical and magnetic properties of Er_{1-x}Gd_xFeO₃ orthoferrites", Journal of Materials Science: Materials in Electronics 34 (2023) 1535 1-14.
4. K. Vinay Kumar Reddy, G. Srinivas Reddy, P. Muralikrishna, S. Shraavan Kumar Reddy, B. Sreenivasa Reddy Natural background outdoor gamma radiation levels and mapping of associated risk in Siddipet district of Telanagana State, India, Nuclear and Particle Physics Proceedings 339-340 (2023) 114-119.
5. J. Ramesh, S. Shraavan Kumar Reddy , B. Srinivas, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, "The structural, electrical properties, and surface morphology of Gd doped LaFeO₃ polycrystalline materials", Materials Today: Proceedings (2023) (In Press).
6. Srinivas Pattipaka, Pamu Dobbidi, Pundareekam Goud J, Gyan Prakash Bharti, S. Shraavan Kumar Reddy, Raju James K C, Alike Khare "Nonlinear optical properties of Bi_{0.5}Na_{0.5}TiO₃ thin films grown by PLD", Ceramics International 48 (19-PART-B) (2022) 29533-29539.
7. S Shanmukharao Samatham, Saurabh Singh, Akhilesh Kumar Patel, S. Shraavan Kumar Reddy, Tsunehiro Takeuchi, K G Suresh "Magnetic behavior of Ru substituted skyrmion metal MnSi", Journal of Physics: Condensed Matter 34 (2022) 345801 (8pp).
8. M. Manendar, S. Shraavan 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_{0.5}Sr_{1.5}Co₂Fe₁₂O₂₂ Y-type hexagonal ferrites", Ceramics International 47 (2021) 9591–9596.
9. M. Sumalatha, S. Shraavan 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_{2-x}In_xO₄)" Journal of Magnetism and Magnetic Materials 523 (2021) 167561.
10. G. Padmasree, S. Shraavan Kumar Reddy, N. Pavan Kumar, P. Yadagiri Reddy, and Ch. Gopal Reddy "Structural and magnetic properties of Y_{1-x}Dy_xFeO₃ multiferroics" Materials Today: Proceedings 46 (2021)2201–2204.
11. G.Padmasree , S. Shraavan Kumar Reddy, N.Pavan Kumar, P.Yadagiri Reddy, Ch.Gopal Reddy, "Magnetization Studies of Mn Doped YFeO₃ Multiferroics" , AIP Conference proceedings 2352 (020018) 2021. (Impact Factor: 0.42).
12. G.Padmasree, S. Shraavan Kumar Reddy, N.Pavan Kumar, P.Yadagiri Reddy, Ch.Gopal Reddy, "Structural and magnetic properties of Y_{1-x}Dy_xFeO₃ multiferroics", Materials Today Proceedings 46 (2021) 2201-2204. (Impact Factor: 0.42).

XX Details of Journal Publications

13. 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 $Ba_{0.5}Sr_{1.5}Co_2Fe_{12}O_{22}$ Y-type hexagonal ferrites" *Ceramics International* 47 (2021) 9591-9596. (Impact Factor: 4.5).
14. 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 ($CoFe_{2-x}In_xO_4$)" *Journal of Magnetism and Magnetic Materials* 523 (2020) 167561. (Impact Factor: 3.2).
15. G Padmasree , S. Shravan Kumar Reddy ,J. Ramesh , P.Yadagiri Reddy and Ch Gopal Reddy, "⁵⁷Fe Mossbauer and electrical studies of Mn doped $YFeO_3$ prepared via sol-gel technique" *Materials Research Express* 7(2020)116103. (Impact Factor: 1.7).
16. J. Ramesh, S. Shravan Kumar Reddy, G.Padmasree, M.S.Reddy, Ch.G.Reddy, P.Y.Reddy, K.R. Reddy, V.R.Reddy, "The characterization of Nd doped $BiFeO_3$ multiferroic polycrystalline materials" *AIP Conference proceedings* 2269 (2020)030056. (Impact Factor: 0.64).
17. 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 ($CoFe_{2-x}Ga_xO_4$)" *Journal of Alloys and Compounds* 837 (2020) 155478. (Impact Factor: 5.4).
18. 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 $CoFe_2O_4$, AIP Conference Proceedings 2220, 110038 (2020). (Impact Factor: 0.64).
19. Anjali Panchwane, 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 $DyFeO_3$: An Extended X-ray Absorption Fine structure (EXAFS) study", *J. Phys.: Condens. Matter* 31 (2019) 345403 (Impact Factor: 2.9)
20. S. Charvani, S. Shravan Kumar Reddy, G. Narendar, Ch. Gopal Reddy, "Preparation characterisation of alumina nanocomposites", *Materials today: proceedings* 5(13):26817-26822 (2018). (Impact Factor: 0.42)
21. 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 57Fe Mössbauer studies of Al doped $PrFeO_3$ polycrystalline materials" *Ceramics International* (2018) 19314-19318. (Impact Factor: 4.5)
22. 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 $DyFeO_3$ system", *Ferroelectrics* (Taylor & Francis) 516 (2017) 1-7 . (Impact Factor: 1.7)
23. 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 $DyFeO_3$ ceramics", *Ceramics International* 43 (2017), 6148-6155. (Impact Factor: 4.5)
24. J. Ramesh, N. Raju, S. Shravan Kumar Reddy, M. Sreenath Reddy, Ch. Gopal Reddy, P. Yadagiri Reddy, K.Rama Reddy, V. Raghavendra Reddy, "⁵⁷Fe Mossbauer study of spin reorientation transition in polycrystalline $NdFeO_3$ ", *Journal of Alloys and Compounds* 711 (2017) 300-304. (Impact Factor: 5.4).
25. 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 DyFeO₃ system”, *Ferroelectrics* (Taylor & Francis) 516 (2017) 1-7 .

26. S. Shravan Kumar Reddy, N. Raju, Ch. Gopal Reddy, P. Yadariri Reddy, K. Rama Reddy, V. Raghavendra Reddy, Surya Mohan Gupta, “Study of Mn doped multiferroic DyFeO₃ ceramics”, *Ceramics International* 43 (2017), 6148-6155.
27. N. Raju, S. Shravan Kumar Reddy, J. Ramesh, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V.G. Sathe and V. Raghavendra Reddy, “Magnetic, ferroelectric, and spin phonon coupling studies of Sr₃Co₂Fe₂₄O₄₁ multiferroic Z-type hexaferrite”, *Journal of Applied Physics* 120 (2016) 054103.
28. S. Shravan Kumar Reddy, N. Raju, Ch. Gopal Reddy, P. Yadagiri Reddy, K. Rama Reddy, V. Raghavendra Reddy, “Structural, electrical, magnetic and ⁵⁷Fe Mössbauer study of polycrystalline multiferroic DyFeO₃” *Journal of Magnetism and Magnetic Materials* 396 (2015) 214–218.
29. N.Raju, S. Shravan Kumar Reddy, Ch. Gopal Reddy, P.Yadagiri Reddy, K.Rama Reddy, V. Raghavendra Reddy, “In-field ⁵⁷Fe Mössbauer study of multiferroic Ba_{0.5}Sr_{1.5}Zn₂Fe₁₂O₂₂ Y-type hexaferrite” *Journal of Magnetism and Magnetic Materials* 384 (2015) 27-32.
30. N.Raju, D. Roja Sree, S. Shravan Kumar Reddy, Ch. Gopal Reddy, P.Yadagiri Reddy, K.Rama Reddy, V. Raghavendra Reddy, Goverdhan Reddy Turpu, “Nanosize effects on the magnetic field induced transitions in La_{0.67-x}EuxCa_{0.33}MnO₃ perovskite manganite” *Journal of Magnetism and Magnetic Materials* 368 (2014)308–311.

