

I	Name of Faculty	Dr.M.CHANDRA SEKHAR
II	Designation	Assistant Professor
III	Nature of Job/Appointment	Contract
IV	Date of Joining	24-3-2021
V	E-mail	chandrasekharm_physics@cbit.ac.in



VI	Education Qualifications	Name of the Degree	Class
	Ph. D	Doctorate in Philosophy (PHYSICS)	Awarded
	PG	M.Sc (PHYSICS)	1 ST Distinction
	UG	B.Sc (MPCS)	1 ST Distinction
	Others	M.Tech (Nanotechnology)	1 ST Distinction
		M.Sc (Psychology)	1 ST Distinction
		Post Graduate Diploma TeleCommunications (PGDTC)	1 ST Distinction
VII	Eligibility Tests	1.Qualified State Eligibility Test [SET-2014] 2.Qualified State Eligibility Test [SET-2012] 3.Qualified Teacher Eligible Test [TET- 2022]. 4.Qualified Faculty Eligibility Test [FET-2010].	Osmania University Osmania University Govt. of Telangana JNT University Hyd
VIII	Awards	1.Received “ Best Faculty Award-2024 ” from Knowledge Research Academy(Coimbatore, Tamil Nadu (An MSME Registered Organization UDYAM-TN-03-0021905) on the occasion of National Science Day Awards 2024. 2.Received “ National Distinguished Teacher Award-2021 ” by INSTITUTE of OR is Registered with Ministry of MSME, Govt. of India (UDYAM-PB-20-0002405). (https://www.facebook.com/media/set/?set=a.4636366829810918&type=3) 3.Received “ Best Researcher Award-2019 ” from International Institute of Organizational Research (A Registered MSME with MINISTRY of MSME, (UDYAM-PB-20-0002405) (http://nebula.wsimg.com/7d4437fd9f968da86de6175f20acbc3d?AccessKeyId=245B99561176BAE11FEB&disposition=0&alloworigin=1)	

IX	Work Experience	
	Teaching	18 YEARS
	Research	6 YEARS
	Industry	-
X	Area of Specialization	Nanoscience and Nanotechnology
XI	Professional Memberships	<p>1. Indian Association of Physics (IPA) Life Member HYD/LM/13585.</p> <p>2. International Association of Engineers (IAENG) Life Member(295824).</p> <p>3. International Institute of Nanoscience & Nanotechnology, (IINN) Life Member.</p>
XII	Responsibilities held at Institution Level	<p>1. Member in STUDENT COUNSELING CELL.</p> <p>2. Member in Chaitanya SVAASTHYA CLUB.</p>
XIII	Responsibilities held at Department Level	<p>1. Member in maintenance committee.</p> <p>2. Student counsellor Incharge for 1ST Year UG Students.</p>
XIV	Research Guidance	As a co-guide for 2 Research scholars (VIGNAN University)
XV	Courses Handled at Under Graduate / Post Graduate Level.	<p>1. Electromagnetic Theory & Quantum Mechanics</p> <p>2. Optics and Semiconductor Physics</p> <p>3. Mechanics & Material Science</p> <p>4. History of Science & Technology</p>
XVI	No. of Papers Published	National Journals –0 International Journals –14
		National Conference – 0 International Conference – 2
XVII	Projects Ongoing	1. CRS Project accepted at UGC-DAE consortium for scientific research CRS/2022-23/1061 at Indore “Tailoring magneto-transport phenomena in magnetic skyrmion materials”
XVIII	Patents/ Technology Transfer	<p>1. “ATHLETICS TRACK MARKING DEVICE FOR PRECISE MARKING OF LANES AND TRACK LINES” on 04/10/2024 http://ipindia.nic.in/index.htm</p>
	Invited Speaker (Few Important/Prominent)	<p>1. A Invited Talk at Kavitha Memorial Degree College on 16th Dec 2024 on “Technical Opportunities for science UG students”</p> <p>2. A Guest Lecture at Faculty Development Programme on Recent Trends in Nano Science and Innovative Models for Laboratory Activities (RTNS & IMLA-2023) at Vignan Institute of Technology on 27th March , Hyderabad.</p> <p>3. An Invited Speaker on “Role of Nanotechnology in communication systems “ in between 2nd November to 14th November 2021, in association with Electronics & ICT Academy, NITW.</p>

XIX No. of Books/Chapter Published with details

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

1. Published a text book on “ **Nanostructured Materials for Next Generation Energy Storage and Conversion**” Infinite Research Publications, ISBN:978-81-973604-7-3 <https://infinite-research.org/products/nanostructured-materials-for-next-generation-energy-conversion-and-storage/>

1. Completed **One-Week Online Short Term UGC Sponsored Course on "Advances in Nanomaterial Fabrication, Characterization and Applications"** held from **31/10/2022 to 05/11/2022** from JNTUHRDC
2. Completed **Two-week Online UGC Sponsored Refresher Course on "Contemporary Development Trends in Materials Science and Engineering"** held from **09/08/2021 to 24/08/2021** with **A Grade** from JNTUHRDC
3. Completed successfully AICTE (ATAL) FDP on " Fundamentals and Applications of Photonic Crystals and Metamaterials " from 4/10/2021 to 8/10/2021 at **IIIT Allahabad.**
- 4.. Completed successfully AICTE (ATAL) FDP on "Nanomaterials and Nanotechnology" from 20/09/2021 to 24/09/2021 at Defence Institute of Advanced Technology.
- 5.. Completed successfully AICTE (ATAL) FDP on "Fabrication and Characterization of Thin Films for Future Technological Applications" from 16/08/2021 to 20/08/2021 at The National Institute of Engineering.
- 6.. FDP from 2021-07-05 to 2021-07-10 on Android app using Kotlin organized by , **IIT Bombay.**
- 7.. One-Week Online Faculty Development Programme on “Mentoring Pedagogy and Online Teaching for Higher Education” organized by E&ICT Academy **IIT Guwahati** held from 09 to 14 August, 2021.
8. One Day National Webinar on "Medical Physics in Cancer Care and Radiation Protection" organized by Department of Physics, Krishna University on 18th September 2021.
9. participating in online National Level Faculty Development Program (FDP) on “Materials for Photonic Applications” conducted during 9th-13th August, 2021 in MGIT.
10. Participated in the Five Days e-Workshop on LaTeX, organized by the Department of Mathematics, School of Science, GITAM, Bengaluru, India, held from 5th to 9th July 2021.
11. webinar on “Role of Nanotechnology for Alternative Energy Sources” held on 09-08-2021, organised by Department of Physics, University College of Science, Mahatma Gandhi University.
12. Presented a paper “synthesis of PMMA/ZnO nanocomposites” in 2nd International Conference on Nano Science & Engineering Applications on 4th – 6th Oct 2018.
13. Attended a National Conference on Materials for Energy, Environment & applications (NCMEE-2018) on 29th-30th April 2018.
14. Attended a International Conference on Science & Engineering of Materials for Future Needs (ICSEMF-2015) on 21st-22nd Dec 2015.
15. Presented a Paper Entitled “vitality of physics in Nanotechnology” in National Conference on Emerging Trends of Advanced Functional Materials (NCAFM-2015) on 3rd-4th

Sep 2015.

16. Attended a 2-Day workshop on Recent Trends in Device Materials (RTDM-2013) on 8th-10th Nov 2013, NIT Warangal.

17. Participated a National conference on Recent Trends in Nanoscience & Technology for Device Applications (RNTDA-2013) on 4th April 2013, KL University.

18. Attended a 2-Day Faculty Development Programme (FDP-IX) on Teaching & Research Methodologies in Technical Education on 9th-10th Mar 2013.

19. Attended a 2-Day workshop on National Programme on Technology Enhanced Learning (IIT Madras) on 31st Aug-1st Jul 2012, NIT Warangal.

20. Presented a Paper entitled "Improved Corrosion Resistance by Nano composite" in International Conference on Latest Trends Nanoscience and Nanotechnology (ICNSNT-2011), March 2011.

21. Participated in a National conference on Nanoscience & Technology for Device Applications (NSTDA-2011), KL University.

22. Attended a 1-Day workshop on "Teaching English & Communication Skills-Best Practices" on 1st Oct 2010.

23. Participated in a National conference on Nanomaterials in Engineering by AICTE on 13 Sep 2010.

24. Attended 2-Day workshop on Introduction to Nanoscience & technology Applications on 3rd-4th Sep 2010, JNTUH.

XX Details of Journal Publications/ Conferences (National and International)

1. Dielectric and Thermal Behavior of Al-Doped Cobalt Titanate Nanoparticles *Crystal Research Technology*. 2025
2. Weak first-order phase transition, exchange bias effect, and T-H phase diagram of $\text{Mn}_{0.75}\text{Fe}_{0.25}\text{NiGe}$. *hys. Rev. Materials*. 2025
3. Structure, Dielectric, and Thermal Behavior of Bismuth Titanate Nanoparticles, *Chemistry Select*, 2025
4. A Journal in INTERMAG 2024 "Restoration of Magnetic Order in Heavy Metal Doped Spin Glass" ID 4071246 and will be published in IEEE communications. 2024
5. Published a Journal "Low-temperature hydrothermal synthesis of $\text{NiEuFe}_2\text{O}_4$ nanoparticles: Magnetic, thermal, and magneto-dielectric behavior. 2023
6. A Journal "Structural, dielectric, magnetic, and thermal properties of $\text{Al}_x\text{Co}_{1-x}\text{TiO}_{3+\delta}$ ($x=0.2-0.8$) nanoparticles " 2023.
7. Published a journal "A Review on Piezoelectric Materials and Their Applications" in *Crystal Research and Technology*, DOI: 10.1002/crat.202200130 September 23, 2022.
8. Published a Journal "High saturation magnetization in $\text{Ni}_{0.2}\text{Mn}_{0.8}\text{Fe}_2\text{O}_4$ nanoparticles" *Journal of Ovonic Research*, Vol. 18, No. 4, July - August 2022, p. 591 – 600.
9. Published a Journal "Fabrication of Randomly Integrated PMMA/ZnO nanorods NanoGenerator (RING)" *International Journal of Mechanical Engineering*, ISSN:0974-5823, Vol.7 No.3 March, 2022.
10. Published a Journal "Structure, morphology and ferroelectric behavior of $\text{Ba}_{1-y}\text{Zn}_y\text{TiO}_3$ ($y = 0.2, 0.4, 0.6 \& 0.8$) nanoceramics" *Digest Journal of Nanomaterials and Biostructures* Vol.17, No.1, Jan-Mar 2022, p.317-322.
11. 2nd International Conference on Advanced Materials Behaviour and Characterization: ICAMBC_2021. MS ID: AIPCP21-AR-ICAMBC2021-00020. "**Synthesis of Iron Oxide Nanoparticles and Their Electrochemical Behavior**".

12. Published an journal "PMMA/ZnO Nanocomposite Synthesis by Microwave Radiation" International Journal of Current Advanced Research (**IJCAR**) ISSN (P): 2319-6475; ISSN(P: 2319-6505, Vol. 7, Issue 12(D), Dec 2018, 16624-16628.
13. Published a paper in journal "Swift Synthesis of ZnO Nanorods by Microwave Hydrothermal Method" International Journal of Physics and Research (**IJPR**) ISSN(P): 2250-0030; ISSN(E): 2319-499 ,Vol. 7, Issue 3, Aug 2017, 1-6.
14. Published a paper in journal "Instant Synthesis of ZnO Nanoparticles by Microwave hydrothermal Method" International Journal of Nanoscience and Nanotechnology (**IJNN**) ISSN 0974-3081 Volume 8, Number 1 (june 2017), pp. 17-23.
15. Published a paper in journal "Vitality of Physics In Nanoscience and Nanotechnology" International Organization for Scientific Research (**IOSR**) with ISSN: 2278-4861, Volume 7, Issue 1 Vol. III (Jan.-Feb. 2015), PP 01-05.
16. Published a paper in journal "Nanocomposite Coating for Improved Corrosion Resistance" International Journal of Engineering Science and Technology (**IJEST**) with ISSN: 0975-5462, Vol. 4 No.07 July 2012.

