

Name of Faculty	Dr. Madunuri Chandra Sekhar
Designation	Assistant Professor
Nature of Job/Appointment	Contract
Date of Joining	24 - 03 - 2021
E-mail	chandrasekharm_physics@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Physics)	Awarded
PG	M. Sc. (Physics)	Distinction
UG	B. Sc. (Comp)	Distinction
Others	M. Tech (Nanotechnology)	Distinction
	M. Sc (Psychology)	Distinction
	Post Graduate Diploma In Telecommunication	Distinction
	B. Ed	Distinction
Eligibility Tests	1.Qualified State Eligibility Test [SET-2014] 2.Qualified State Eligibility Test [SET-2012] 3.Qualified Teachers Eligibility Test [TET-2021] 4.Qualiied Faculty Test [FET-2010]	Osmania University Osmania University Govt of Telangana JNTUH
<b>Work Experience</b>		
Teaching	16 Years	
Research	6 Years	
Industry	--	
Others	--	
Area of Specialization	Solid state physics, Nanoscience & Nanotechnology,	
Professional Memberships	1. Indian Association of Physics (IPA) Life Member HYD/LM/13585. 2. International Association of Engineers (IAENG) Life Member (295824). 3. International Institute of Nanoscience & Nanotechnology,(IINN) Life Member.	
Responsibilities held at Institution Level	1. Member in STUDENT COUNSELING CELL 2. Member in Chaitanya SVAASTHYA 3. Member in Public Relation Committee	
Responsibilities held at Department Level	1. Member in maintenance committee. 2. Student counsellor Incharge.	
Research Guidance	As a co-guide for 2 Research Scholars in Vignan University 1. Received "Best Researcher Award-2019" from International Institute of Organizational Research (A Registered MSME with MINISTRY of MSME, GOVERNMENT OF INDIA (UDYAM-PB-20-0002405) (http://nebula.wsimg.com/7d4437fd9f968da86de6175f20acbc3d?AccessKeyId=245B99561176BAE11FEB&disposition=0&alloworigin=1) 2. Received "National Distinguished Teacher Award-2021" by INSTITUTE of OR is registered with Ministry of MSME, Govt. of India (UDYAM-PB-20-0002405).	
Awards Received		

Courses Handled at Under Graduate / Post Graduate Level.

1. Electromagnetic theory and Quantum mechanics
2. Optics and Semiconductor Physics
3. Physics

No. of Papers Published

National Journals – 00                      International Journals – 10  
National Conference – 00                      International Conference – 03

Projects Carried out

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  
PI: Dr. S. Shanmukharao ; Co-PI: Dr. M. Chandra Sekhar  
Fund: Rs. 100000/-

Patents

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Technology Transfer

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Invited Speaker

Attended as an invited Speaker on "Role of Nanotechnology in communication systems " in between 2<sup>nd</sup> November to 14<sup>th</sup> November 2021, in association with Electronics & ICT Academy, NITW

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

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.

Details of Journal Publications/  
Conferences (National and  
International)

1. Published a journal "A Review on Piezoelectric Materials and Their Applications" in Crystal Research and Technology, DOI: 10.1002/crat.202200130 September 23, 2022.
2. Published a Journal "High saturation magnetization in  $\text{Ni}_{0.2}\text{Mn}_{0.8}\text{Fe}_2\text{O}_4$  nanoparticles" Journal of Ovionic Research, Vol. 18, No. 4, July - August 2022, p. 591 – 600.
3. 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.
4. 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.
5. 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".
6. 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.
7. 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.
8. 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.

