

Profile

Name of the Faculty	Dr. Suneetha T.	
Designation	Assistant Professor	
Department	Freshman Engineering (Physics)	
Area of Interest	Material science engineering. Oxide and semiconductor materials. Thin film fabrication techniques. Nanomaterial synthesis and characterizations	
Subjects Taught	Applied physics, thin film fabrication, Semiconductor Devices, Solid State Physics.	
JNTUH Registration Id	9222-240105-143932	
College Staff Code	SC 1910	
Official Mail	drsuneetha.fe@gcet.edu.in	

Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1.	M. tech.	Solid State Technology	IIT Kharagpur	2008-2010
2.	Ph. D	Solid State Materials	IIT Delhi	2010-2017

Publications Details :

S. No.	Publication details
1.	“Structural, vibrational and magnetic properties of Cu-substituted $Mn_{0.5}Zn_{0.5}Fe_2O_4$ nanoparticles. Suneetha T*, G. N. Rao, Journal of Mater Science: Mater Electronics 32 (2021) 14420-14436.

2.	“Investigation of Superparamagnetism in Microwave and Conventional Processed Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ Nanoparticles” G. N. Rao, T. Ramesh, Suneetha T*, J Supercond Nov Magn 30 210 (2017) 1-6.
3.	“Microwave Hydrothermal synthesis of YIG: Sintering Temperature Effect on Structural, Magnetic and Dielectric Properties" Ramesh T, T Suneetha, et al J Supercond Nov Magn 31 6 (2017) 1899.
4.	“Cation distribution in Ni-substituted Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles: A Raman, Mossbauer, X-ray diffraction and Electron Spectroscopy Study” Suneetha Thota*, Subhash C. Kashyap, Shiv K. Sharma, V. R. Reddy. J. Mater. Sci. Eng. B 206 (2016) 69-78 (ISSN 0921-5107, 2.552).
5.	“Micro Raman, Mossbauer and magnetic studies of manganese substituted zinc ferrite nanoparticles: Role of Mn” Suneetha Thota*, Subhash C. Kashyap, Shiv K. Sharma, V. R. Reddy, J. Phys. Chem. Solids 91 (2015) 136-144. (ISSN 0022- 3697, 2.059)
6.	“Improved Magnetic Properties of Microwave-Processed Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ Nanoparticles” Suneetha Thota*, S. C. Kashyap, H. C. Gupta, J Supercond Nov Magn 28 (2015) 131-136.
7.	“Superparamagnetic State by Linear and Non-Linear AC Magnetic Susceptibility in Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ Ferrites Nanoparticles", Suneetha. T*, <i>et.al.</i> , J. Nanosci. Nanotech.13, 270-278 (2013).
8.	“Improved Magnetic properties of Microwave Processed Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ Particles”, Suneetha Thota*, Subhash C. Kashyap, Hem C. Gupta 57thDAE Solid State Physics Symposium December 3 – 7, 2012. Solid State Physics (India) 57 (2012) AIP Conf. Proc. 1512, 1170-1171. (1551-7616).
9	A comparative study of antibacterial anti-cancer and gas sensing properties of Zinc oxide nanostructures synthesized by different routes, T Ramesh, Sravanthi, Suneetha T Journal of Mater Science: Mater Electronics vol. 34 no 19 (2023)
10	Investigations on Structural and Ferroelectric Characteristics of Ba(1-x) Ca(x)TiO ₃ Ceramics (x = 0.1–0.5) for High Frequency Applications P. Sakuntala S. E. Naina Vinodini, Ch. Pradyutha, Sirisha Bandi, Suneetha Thota, and P. Raju ECS Journal of Solid State Science and Technology, 2025 14 063008

* indicates corresponding author/ First author

National and International conferences:

S. No.	conferences
1.	“Ferromagnetic resonance and magnetic property studies on Mn _x Zn _{1-x} Fe ₂ O ₄ (x = 0.00, 0.35, 0.50, 0.65) nanoparticles prepared by citrate method” Suneetha Thota, S. C. Kashyap, H. C. Gupta, 59th Annual conf. on magnetism and magnetic materials , Honolulu Nov 3-5 2014.
2.	“Improved magnetic properties of microwave processed Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ nano particles” Suneetha Thota, Subhash C. Kashyap and H. C. Gupta, International Conference on Materials for Advanced Technologies (ICMAT-2011) , Suntec 26 Jun to 1 July 2011 Singapore.
3.	“Improved Magnetic properties of Microwave Processed (H-field) Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ Particles”, Suneetha T, 57thDAE Solid State Physics Symposium December 3 – 7,

	Solid State Physics (India) 57 (2012).
4.	“Effect of microwave processing on $Mn_{0.5}Zn_{0.5}Fe_2O_4$ synthesized by Co-Precipitation method” Suneetha T, et.al., National symposium on microwave processing IIT Delhi November 28, 2010 .(poster). “Superparamagnetism in microwave processed on $Mn_{0.5}Zn_{0.5}Fe_2O_4$ nanoparticles”
5.	“Superparamagnetism in microwave processed (H-field) $Mn_{0.5}Zn_{0.5}Fe_2O_4$ nanoparticles” Suneetha T, et.al., National conference on Recent Trends in Microwave Techniques and applications 30th July-1st August, 2012, Jaipur (India) (Oral presentation).
6.	“Improved magnetic properties of $SrCo_2Ti_2Fe_8O_{19}$ hexaferrite by Microwave processing method” Suneetha, Ashwin T Pressing for Progress 2019 An IPA National conference towards Gender equity in physics. 19-21 Sep 2019. University of Hyderabad, INDIA.
7	Improved Magnetic Properties of $SrCo_2Ti_2Fe_8O_{19}$ Hexaferrite by Microwave processing (H-field) Method Suneetha T* Paper id 55, 3 rd international conference of multifunctional materials Geethanjali college of engineering technology Keesara, Hyderabad

Research Grant:

S. No.	Research grant	University/College	Year
1.	DST WOS-A fellowship	IIT Bombay	2019-2022

Experience:

Teaching	02 year
Industry	Nil
Research	10 years
Total Experience	11 years

Visits abroad: Singapore for conference from 24th June to 2nd July 2011.