

Profile

Name of the Faculty	M. Kanaka Durga	 Photo
Designation	Assoc. Prof.	
Department	Freshman Engineering	
Area of Interest	Materials Science	
Subjects Taught	Applied Physics, Solid State Physics, Semiconductor Devices, SSP Lab, SD Lab.	
JNTUH Registration Id	0188-190111-122557	
College Staff Code	SC15983	
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Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	PhD	Materials Science	Osmania University	2017
2	M.Phil	Condensed Matter Physics	Hyderabad Central University	1995

Publications Details :

S. No.	Publication details
1.	Raju Panthagani, M. Kanaka Durga, G. Neeraja Rani, Structural, electric, dielectric properties of NiCuZn Ferrite-SWCNT nanocomposites,

	Ceramics International, Volume 51, Issue 16, Part A, 2025,
2.	M. Kanaka Durga , P Raju, G. Neeraja Rani, , Role of Pb(Zr _{0.52} Ti _{0.48})O ₃ on Electric, Dielectric, Electromagnetic Wave Absorption Characteristics of Multiferroic Nanocomposites for Magnetoelectric Devices, ECS J. Solid State Sci. Technol. (2024) 13 103008
3.	P. Raju, M. Kanaka Durga, S. Udaya Kumar, and G. Neeraja Rani, Microwave Attenuation Studies of Polypyrrole-SWCNT Nanocomposite Films for Improved EMI Shielding, ECS J. Solid State Sci. Technol (2022) 11, 091007.
4.	Neeraja Rani G, Kanaka Durga M, and Raju, PANI-SWCNT Blends with PVA Nanocomposite Films: Structural, Morphological and Electrical Properties for Effective EMI Shielding Applications, ECS J. Solid State Sci. Technol (2022) 11, 073005.
5	P. Raju, A. Thirupathi , P. Neelima , M. Kanakadurga, Ni _{0.48} Cu _{0.12} Zn _{0.4} Fe ₂ O ₄ + paraformaldehyde nanocomposites as microwave absorbent dominant materials, Solid State Communications 351 (2022) 114790.
6	M. Kanaka Durga, P. Raju, Effect of BaTiO ₃ phase on frequency dispersion characteristics of Mg _{0.48} Cu _{0.12} Zn _{0.4} Fe ₂ O ₄ + BaTiO ₃ nanocomposites, Materials Science and Engineering B 272 (2021) 115340.
7	P. Raju, P. Neelima, G. Neeraja Rani, M. Kanakadurga, Enhanced microwave absorption properties of Ni _{0.48} Cu _{0.12} Zn _{0.4} Fe ₂ O ₄ + polyaniline nanocomposites, Journal of Physics and Chemistry of Solids 154 (2021) 110048.

Experience:

Teaching	21
Industry	--
Research	14
Total Experience	21