Faculty	**Mrs. BHARGAVI K** **Assistant Professor** EastPointCollegeof Engineering&Technology
	Dr Bhargavi K is a passionate physicist with a strong academic background and a wealth ofexperience in the field of Material science and Condensed Matter Physics. Sheholds a PhD degree from the esteemed Gandhi Institute of Technology and Management, where She specialized in physics. Before that, she completed her MSc in physics at REVA University and earned her BSc from Vijayanagar Shrikrishna Deva Raya University. My expertise lies in material science, where I've delved deep into the intricacies of spectroscopy. I'm proud to have contributed significantly to the scientific community with 10 publications in reputable journals. In addition, I've authored two book chapters in prestigious journals, further solidifying my commitment to advancing the frontiers of knowledge in the field.My academic journey and research have equipped me with a profound understanding of the principles of physics and their practical applications.
	Publications: • **Koneru Bhargavi**, Jhilmil Swapnalin, Srinivasan Natarajan, Adolfo Franco Jr, and Prasun Banerjee. "Intercalation of Nanoscale Multiferroic Spacers between the Two-Dimensional Interlayers of MXene." *ACS Omega* (2022). • **Koneru Bhargavi**, Jhilmil Swapnalin, Srinivasan Natarajan, A. Franco Jr, and P. Banerjee. "Investigation of the ion dynamics by a particular excitation due to the stoichiometric imbalances on BiFeO3 ceramics." *Physica B: Condensed Matter* 649 (2023): 414463. • **Koneru Bhargavi,** Jhilmil Swapnalin, P. Banerjee, Kadiyala Chandra Babu Naidu, and N. Suresh Kumar. "Materials under extreme pressure: combining theoretical and experimental techniques." *The European Physical Journal Special Topics* (2022): 1-12. • Jedla, Maheshwara Reddy, **Bhargavi Koneru,** Adolfo Franco Jr, Dinesh Rangappa, and Prasun Banerjee. "Recent Developments in Nanomaterials Based Adsorbents for Water Purification Techniques." (2021). • Swapnalin, Jhilmil, **Bhargavi Koneru,** P. Banerjee, Srinivasan Natarajan, and A. Franco Jr. "Multilayer intercalation: MXene/cobalt ferrite electromagnetic wave absorbing two-dimensional materials." *Journal of Physics and Chemistry of Solids* (2022): 110797. • Swapnalin, Jhilmil, **Bhargavi Koneru**, RamyakrishnaPothu, Prasun Banerjee, Rajender Boddula, Ahmed Bahgat Radwan, and Noora Al-Qahtani. "Surface modification of Ti3C2Tx using terminal groups and heteroatoms with excellent electrochemical performance in supercapacitors." *Applied Physics Letters* 122, no. 16 (2023).

	• Koneru, Bhargavi, et al. "Role of the intercalated ions on the high capacitance behavior of T i 3 C 2 T x MXene nano-hybrids." *Nanocomposites* just-accepted (2023): 1-13.
	Book Chapters: 02 • **Koneru Bhargavi**, Jhilmil Swapnalin, Prasun Banerjee, Manikanta P. Narayanaswamy, Dinesh Rangappa, and Srinivasan Natarajan. "2D Materials for Nanogenerators." In *Nanogenerators*, pp. 49-60. CRC Press. • **Koneru Bhargavi**, Jhilmil Swapnalin, Hanumanthrayappa Manjunatha, and Prasun Banerjee. "Biobased Thermosets for Engineering Applications." *Handbook of Bioplastics and Biocomposites Engineering Applications* (2023): 575-587.
	Journals: ACS Omega, Alpha Chemica, Physica B
	Magazines
	Conferences: 10+
	• Participated and delivered an ***oral presentation at a young scientists' conference organized by the Indian International Science Festival***2020. • Presented a paper on structural and optical properties of ZnO at an ***International E-conference on advances in science and technology*** organized by GITAM School of Sciences, Bangalore, India. • Presented a paper ***on the Development of nanomaterials-based absorbents for water purification techniques*** at IVCSAMSEA 2020 by KL University, Guntur, India. • Participated and delivered an oral presentation on the researcher's day event at GITAM University, Vishakhapatnam, India. • Attended an international conference and Hands-on training in material fabrication at VTU Research Centre. • Attended Hands-on training at BRUKER Analytical Centre about XRD Diffractometer.
	Achievements/Awards/Recognitions
	○ UGC Fellowship awarded for scientific research to pursue PhD. ○ Recipient of institute fellowship for pursuing PhD from GITAM Deemed to be University (2020-2023).