

Visit of Prof. Rajesh Sani to Biogas Plant, JUIT **(September 17, 2025)**

During his five-day academic visit to the Jaypee University of Information Technology (JUIT), Prof. Rajesh Sani, a distinguished Professor from the Department of Chemical and Biological Engineering at the South Dakota School of Mines, USA, visited the university's biogas plant facility. The biogas plant, has been installed near the student mess and functional since 2009, plays a vital role in converting organic waste generated from the dining facility into usable biogas energy, thereby supporting the university's sustainability initiatives.

During the visit, Prof. Kumar provided a detailed explanation of the operational mechanism of the 3000-litre biogas reactor. He highlighted that the reactor is one of the four biogas plants established at JUIT under the ***Centre of Sustainable Technologies for Rural Development (CESTRD)***. These plants serve as important demonstration and research units, promoting renewable energy technologies and sustainable waste management practices on campus.

Prof. Sani expressed keen interest in the ongoing work and proposed initiating a collaborative Master's-level research project focusing on the study of microbial community dynamics within the biogas reactor. The proposed study aims to explore the diversity, functionality, and efficiency of microbial consortia involved in the anaerobic digestion process, which could potentially enhance biogas yield and process stability. Prof. Kumar welcomed the proposal with appreciation and assured that planning for this joint research initiative would commence shortly.

