

SREE VIDYANIKETHAN COLLEGE OF NURSING

Field visit - Sewage Treatment Plant - Tirupati

Sree Vidyanikethan College of Nursing V semester students visited and observed the sewage water purification plant at tirupati on 20-04-2026 to know & Understanding how wastewater is transformed into safe effluent" during the visit they learn about Sewage treatment & removes contaminants from wastewater through 3 stages - physical, biological, and chemical. A typical plant processes 10 MLD and reduces BOD by 90% before discharge.

Primary Treatment: Physical removal of solids from the raw water , Screening removes 10-15cm debris form the sewage water after that the water allowed to Sedimentation tanks reduce suspended solids by 50-60% - Secondary Treatment: Biological breakdown, Activated sludge uses aerobic bacteria to digest organic matter, BOD drops from 250 mg/L to 30 mg/L here.

Tertiary Treatment: Polishing for reuse for the irrigation purpose before allowing for irrigation and plantation the water pumped to sand filters and carbonated filters for removal of impurities.



Students along with the sewage treatment plant incharge